

Run on: July 31, 2005, 15:46:58 ; Search time 3623.72 Seconds
 (w/out alignment(s))
 777.311 Million cell updates/sec

OM nucleic - nucleic search, using sw model

Title:	US-10-041-856-2_COPY_2441_2514
Perfect score:	74
Sequence:	1 atgccaaggaaacttaga.....attcggaaagtgtggacaa 74
Scoring table:	IDENTITY_NUC
Gapop:	10.0 , Gapext 1.0
Searched:	34235944 seqs, 19032134700 residues
Total number of hits satisfying chosen parameters:	68479088
Minimum DB seq length:	0
Maximum DB seq length:	200000000

Post-processing: Minimum Match 0%
 Listing first 45 summaries

Database :	EST:*
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c	2: gb_est2:*
c	3: gb_htc:*
c	4: gb_est3:*
c	5: gb_est4:*
c	6: gb_est5:*
c	7: gb_est6:*
c	8: gb_gsb1:*
c	9: gb_gsb2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	74	100.0	417	CN256146
2	74	100.0	447	BFR40993
3	74	100.0	513	AL702133
4	74	100.0	580	BP243833
5	74	100.0	603	BKX78139
6	74	100.0	618	BG395601
7	74	100.0	641	BQ807986
8	74	100.0	709	CN256149
9	74	100.0	803	AU124100
10	74	100.0	866	BUS08979
11	74	100.0	874	BUI56074
12	74	100.0	931	BG286503
13	74	100.0	1134	CN641971
14	74	100.0	3833	CR74935
15	74	100.0	3999	AY414501
16	72.4	97.8	553	BM512007
17	72.4	97.8	713	CK033783
18	72.4	97.8	779	BG471915
19	62	83.8	911	BZ256729
20	59.6	80.5	595	BQ287640
21	59.6	80.5	628	CN703293
22	59.6	80.5	691	CF733016
23	59.6	80.5	731	CA317782
24	59.6	80.5	755	CF724242

RESULT 1

CN256146	CN256146	417 bp mRNA linear EST 16-MAY-2004
LOCUS	DEFINITION	Homo sapiens CDNA 5', mRNA sequence.
ACCESSION	VERSION	CN256146 CN256146.1 GI:47272560
KEYWORDS	EST	
SOURCE	ORGANISM	Homo sapiens (human)
REFERENCES	Mammalia; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butcheria; Primates; Catarrhini; Hominidae; Homo.	
AUTHORS	1 (bases 1 to 417) Brandenberger, R., Wei, H., Zhang, S., Lei, S., Murage, J., Fisk, G.J., Li, Y., Xu, C., Fang, R., Gugler, K., Rao, M.S., Mandalam, R., Leibovitz, J. and Stanton, L.W.	
TITLE	Transcriptome characterization elucidates signaling networks that control human ES cell growth and differentiation	
JOURNAL	Nat. Biotechnol. 22 (6), 707-716 (2004)	
COMMENT	Contact: Brandenberger, R. Regenerativ Medicine Geron Corporation 230 Constitution Drive, Menlo Park, CA 94025, USA Tel: 650 473 8658 Fax: 650 473 7760 Email: rbrandenberger@geron.com Insert Length: 417 Std Error: 0.00.	

FEATURES

Source	Location/Qualifiers
1	.417 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /issue_type="embryonic stem cells, cell lines H1, H7, and H9" /clone lib="GRN ES" /note="Oligo dT primed, full-length enriched cDNA library from undifferentiated hES cell lines H1 (p32), H7 (p29), and H9 (p26) maintained in feeder-free conditions"

ORIGIN

Query Match	100.0%	Score 74;	DB 7;	Length 417;
Best Local Similarity	100.0%	Pred. No. 6.5e-16;	Matches 74;	Conservative 0;
Matches	0;	Mismatches 0;	Indels 0;	Gaps 0;
OY	1	ATGCCAAGGGAACTTAGAGTGTTCATCATCGAGCCCTGGTTAGCTCAGATTGG		
Db	235	ATGCCAAGGGAACTTAGAGTGTTCATCATCGAGCCCTGGTTAGCTCAGATTGG		

RESULT 3	Query Match Best Local Similarity Matches	100.0%; Score 74; DB 2; Length 447; 100.0%; Pred. No. 6.7e-16; Mismatches 0; Indels 0; Gaps 0;	LOCUS DEFINITION ACCESSION VERSION KEYWORDS	BP84093/c RC3-HT0974-011200-013-a03 BP84093 BP84093.1 EST.	BP84093 RC3-HT0974 Homo sapiens cDNA, mRNA sequence. BP84093.1 GI:12193641
ORGANISM	Homo sapiens (human)	SOURCE	ORGANISM	BR0993/c Homo sapiens (human)	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butcheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 447)	AUTHORS	REFERENCE	BP84093 Dias Neto,E., Garcia Corres,R., Veriovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W.J.F., Zogo,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukawa,A., Balaa,G.S., Simpson,D.H., Brunstein,A., daCunha,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.	Dias Neto,E., Garcia Corres,R., Veriovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W.J.F., Zogo,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukawa,A., Balaa,G.S., Simpson,D.H., Brunstein,A., daCunha,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.
TITLE	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags	JOURNAL	JOURNAL	AL702133 EST.	Journal of the National Research Centre for Biotechnology Ltd., Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
JOURNAL	Ludwig Institute for Cancer Genetics	MEDLINE	COMMENT	AL702133 EST.	Ludwig Institute for Cancer Genetics
MEDLINE	Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, São Paulo-SP, Brazil	PUBMED	CONTACT	AL702133 EST (Bloecher,H., Boehler,M., Brandt,P., Mewes,H.W., Weil,B. and Wiemann,S.)	Contact: MIPS
PUBMED	Fax: +55-11-2707001	CONTACT	CONTACT	AL702133 EST (Bloecher,H., Boehler,M., Brandt,P., Mewes,H.W., Weil,B. and Wiemann,S.)	Unpublished (1999)
COMMENT	Email: asimpson@ludwig.org.br	FEATURES	FEATURES	AL702133 EST.	Unpublished (1999)
FEATURES	source	source	source	AL702133 EST.	Unpublished (1999)
ORIGIN	Query Match Best Local Similarity Matches	Query Match Best Local Similarity Matches	Query Match Best Local Similarity Matches	AL702133 EST.	Unpublished (1999)
ORIGIN	1. . 447 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /dev_Status="Adult" /clone.Lib="HT0974" /note=Organ: head; neck; Vector: puc18; Site_1: Smal; Site 2: SmaI; A mini-library was made by cloning products derived from ORSSES PCR (U.S. Letters Patent application No. 196-716 - Ludwig Institute for Cancer Research) profiles into the PUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."	1. . 447 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone.Lib="DKFZp686G02155" /dev_Status="adult" /lab_host="DH10B" /clone.Lib="686 (synonym: hlcc3)" /note="vector: pTripleX2; Site_1: SE1A; Site_2: SE1B; CDNA-collection"	1. . 513 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /clone.Lib="DKFZp686G02155" /dev_Status="adult" /lab_host="DH10B" /clone.Lib="686 (synonym: hlcc3)" /note="vector: pTripleX2; Site_1: SE1A; Site_2: SE1B; CDNA-collection"	AL702133 EST.	Unpublished (1999)
RESULT 4	Query Match Best Local Similarity Matches	100.0%; Score 74; DB 1; Length 513; 100.0%; Pred. No. 6.9e-16; Mismatches 0; Indels 0; Gaps 0;	LOCUS DEFINITION ACCESSION VERSION KEYWORDS	BP243833 BP243833 Sugano cDNA library, liver HepG2 Homo sapiens cDNA clone BP243833 BP243833.1 EST.	BP243833 BP243833 Sugano cDNA library, liver HepG2 Homo sapiens cDNA clone BP243833 BP243833.1 GI:52116743
ORGANISM	Homo sapiens (human)	SOURCE	ORGANISM	AL702133 EST.	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butcheria; Primates; Catarrhini; Hominidae; Homo. Mizushima-Sugano,J., Nakai,K. and Sugano,S.
REFERENCE	1 (bases 1 to 580)	AUTHORS	REFERENCE	AL702133 EST.	Sequence comparison of human and mouse genes reveals a homologous block structure in the promoter regions
TITLE	61 AAGTGGTTGACAA 74	Db	Qy	AL702133 EST.	Mizushima-Sugano,J., Nakai,K. and Sugano,S.
Db	208 AAGTGGTTGACAA 195	Db	Qy	AL702133 EST.	Mizushima-Sugano,J., Nakai,K. and Sugano,S.

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OM nucleic - nucleic search, using sw modeL
Run on: July 31, 2005, 16:38:33 ; Search time 755.531 Seconds
Sequence: (without alignments)
Scoring table: IDENTITY_NUC

Title: US-10-041-856-2_COPY_2441_2514
Perfect score: 74
Sequence: 1 atgcggaaatggaaactttaga.....attcggaagtgggtggacaa 74

Gapop 10.0 , Gapext 1.0
Searched: 7287783 seqs, 3236178273 residues

Total number of hits satisfying chosen parameters: 14575566
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : Published Applications NA:*

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23: /cgn2_6/ptodata/1/pubpna/us11a_PUBCOMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match length	DB ID	Description
1	74	100.0	117	13	US-10-050-189A-10 Sequence 10, Appl
2	74	100.0	4256	20	US-10-719-933-319 Sequence 319, App
3	74	100.0	4803	10	US-07-930-133-276 Sequence 276, App
4	74	100.0	4803	21	US-10-956-157-1094 Sequence 1094, App
5	74	100.0	5840	20	US-10-719-933-322 Sequence 322, App
6	74	100.0	5924	13	US-10-041-856-2 Sequence 2, Appl
7	100.0	5957	20	US-10-719-993-320 Sequence 320, App	

RESULT 1
US-10-050-189A-10
; Sequence 10, Application US/10050189A
; Publication No. US20020108656A1
; GENERAL INFORMATION:
; APPLICANT: Rubin, Berish
; APPLICANT: Anderson, Sylvia
; TITLE OF INVENTION: Detection of Mutations in a Gene Encoding IKB Kinase-Complex-Asso
; TITLE OF INVENTION: Protein to Diagnose Familial Dysautonomia
; FILE REFERENCE: Rubin 201
; CURRENT APPLICATION NUMBER: US/10/050.189A
; CURRENT FILING DATE: 2002-01-16
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO: 10
; LENGTH: 117
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-050-189A-10

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Best Local Similarity 100.0%; Pred. No. 3.1e-13; Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCCAAGGGAACTTAAAGTTATCATGAGCCCTGGTTAGCTCGATTCG 60
Db 28 ATGCCAAGGGAACTTAAAGTTATCATGAGCCCTGGTTAGCTCGATTCG 87
QY 61 AAGTGTTGACAA 74

Db 88 AAGTGGTTGACAA 101

Db 2494 AAGTGGTTGACAA 2507

RESULT 2
US-10-719-993-319
; Sequence 319, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SEQ ID NO 319
; LENGTH: 4256
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-319

Query Match 100.0%; Score 74; DB 20; Length 4256;
Best Local Similarity 100.0%; Pred. No. 1.1e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCAAGGGAACTTAGAGTGTTCATCATCGAGCCCTGGTTAGCTAGATTCG 60
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Qy 61 AAGTGGTTGACAA 74
Db 2551 AAGTGGTTGACAA 2564

RESULT 3
US-09-930-213-276
; Sequence 276, Application US/09930213
; Publication No. US20030170625A1
; GENERAL INFORMATION:
; APPLICANT: ROSENTHAL, ANDRE
; APPLICANT: HINZMANN, BERND
; APPLICANT: SCHAFER, REINHARD
; APPLICANT: ZUBER, JOHANNES
; APPLICANT: TCHE-NITSE, OLEG
; APPLICANT: GRIPS, MARTIN
; APPLICANT: HELINGEGEL, MARTIN
; APPLICANT: SCHMITZ, ANNE-CHANTAL
; APPLICANT: SERS, CHRISTINE
; TITLE OF INVENTION: DETECTION OF DIFFERENTIAL GENE EXPRESSIONS
; FILE REFERENCE: ALBRE-14
; CURRENT APPLICATION NUMBER: US/09/930,213
; CURRENT FILING DATE: 2001-01-31
; PRIORITY APPLICATION NUMBER: DE 10004102.7
; PRIOR FILING DATE: 2000-01-31
; NUMBER OF SEQ ID NOS: 885
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 276
; LENGTH: 4803
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-930-213-276

Query Match 100.0%; Score 74; DB 10; Length 4803;
Best Local Similarity 100.0%; Pred. No. 1.1e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGCCAAGGGAACTTAGAGTGTTCATCATCGAGCCCTGGTTAGCTAGATTCG 60
Db 2491 ATGCCAAGGGAACTTAGAGTGTTCATCATCGAGCCCTGGTTAGCTAGATTCG 2493

Qy 61 AAGTGGTTGACAA 74
Db 2551 AAGTGGTTGACAA 2564

RESULT 4
US-10-956-157-1094
; Sequence 1094, Application US/10956157
; Publication No. US20050118625A1
; GENERAL INFORMATION:
; APPLICANT: WYETH
; APPLICANT: Mounts, William
; TITLE OF INVENTION: NUCLEAR ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH
; TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES
; FILE REFERENCE: 031896-043000 (AM 101081)
; CURRENT APPLICATION NUMBER: US/10/956,157
; CURRENT FILING DATE: 2004-10-04
; NUMBER OF SEQ ID NOS: 319805
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1094
; LENGTH: 4803
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-956-157-1094

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Best Local Similarity 100.0%; Pred. No. 1.1e-17; Mismatches 0; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2434 ATGCCAAGGGAACTTAGAGTGTTCATCATCGAGCCCTGGTTAGCTAGATTCG 2493

Qy 61 AAGTGGTTGACAA 74
Db 2494 AAGTGGTTGACAA 2507

RESULT 5
US-10-719-993-322
; Sequence 322, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 322
; LENGTH: 5840
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-322

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Best Local Similarity 100.0%; Pred. No. 1.2e-17; Mismatches 0; Indels 0; Gaps 0;
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Qy 61 AAGTGGTTGACAA 74
Db 2551 AAGTGGTTGACAA 2564

RESULT 6
US-10-001-86-2
; Sequence 2, Application US/10041856
; Publication No. US20020169299A1
; GENERAL INFORMATION:

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
 Run on: July 31, 2005, 14:44:02 ; Search time 2130.01 Seconds
 (without alignments)
 1683.411 Million cell updates/sec

Title: US-10-041-856-2_COPY_2441_2514
 Perfect score: 74
 Sequence: 1 atgccaaaggaaacttaga.....attcgaaagtggttggacaa 74

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database :

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2: gb_baa:*

3: gb_tin:*

4: gb_omt:*

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12: gb_sy:*

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14: gb_vri:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
1	74	100.0	117	6	AX481363	RESULT 1 AX481363 LOCUS AX481363 DEFINITION Sequence 10 from Patent EP1225232. ACCESSION AX481363 VERSION 1 KEYWORDS SOURCE ORGANISM Homo sapiens (human) Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo. REFERENCE AUTHORS Rubin, B.Y. and Anderson,S.L. TITLE Detection of mutations in a gene encoding lkappab kinase-complex-associated protein to diagnose familial dysautonomia JOURNAL Patent: EP 1225232-A 10 24-JUL-2002; Rubin, Berish Y. (US); Anderson, Silvia L. (US) FEATURES source 1. .117 /organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
2	74	100.0	803	6	BD147310	ORIGIN Query Match 100.0%; Score 74; DB 6; Length 117; Best Local Similarity 100.0%; Pred. No. 1.3e-17; Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
3	74	100.0	803	6	AX867248	Sequence BD15787 Primer fo AX879348 Sequence AK022559 Homo sapi
4	74	100.0	2471	6	BD157787	CQ72404 Sequence AR070165 Sequence AR124807 Sequence CQ85013 Sequence
5	74	100.0	2471	6	AX879348	1 ATGCCAAGSGGAACCTTAACTGAGTGTTCTCATCGAGCCCTGGTTAGCTCAGATTGCG 60 Db 28 ATGCCAAGSGGAACCTTAACTGAGTGTTCTCATCGAGCCCTGGTTAGCTCAGATTGCG 87
6	74	100.0	3516	6	CQ72404	Qy 61 AATGGTTGGACAA 74 Db 88 AATGGTTGGACAA 101
7	74	100.0	3999	6	BD173600	RESULT 2 BD173600 Method of ACX10634 Sequence AF044195 Homo sapi
8	74	100.0	3999	6	AR070165	LOCUS BD147310 DEFINITION Primer for synthesizing full-length cDNA and use thereof. ACCESSION BD147310
9	74	100.0	4417	6	CQ85013	Qy 61 AATGGTTGGACAA 74 Db 88 AATGGTTGGACAA 101
10	74	100.0	4417	9	AK12237	AK12237 Homo sapi
11	74	100.0	4417	9	BD15625	BD15625 Primer fo AX877177 Sequence AK001641 Homo sapi
12	74	100.0	4788	6	AX877177	BD173600 Method of ACX10634 Sequence AF044195 Homo sapi
13	74	100.0	4788	9	AK001641	LOCUS BD147310 DEFINITION Primer for synthesizing full-length cDNA and use thereof. ACCESSION BD147310
14	74	100.0	4788	9	BD173600	Qy 61 AATGGTTGGACAA 74 Db 88 AATGGTTGGACAA 101
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16	74	100.0	4803	6	BD173600	ACCESSION BD147310
17	74	100.0	4803	6	AX210634	ACCESSION BD147310
18	74	100.0	4803	9	AF044195	ACCESSION BD147310
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ALIGNMENTS

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23	74	100.0	78376	9	AL559692	AF888202 Oryctolag AF388201 Rattus no
24	69.2	93.5	4347	4	AF888202	AL559692 Human DNA AF888202 Oryctolag
25	59.6	80.5	4645	10	AF888201	AL559692 Human DNA AF888202 Oryctolag
26	59.6	80.5	4765	10	BC052387	AL559692 Human DNA BC052387 Mus muscu
27	59.6	80.5	4799	10	AF167244	AL559692 Human DNA AF167244 Mus muscu
28	59.6	80.5	5011	10	AF140785	AL559692 Human DNA AF140785 Mus muscu
29	59.6	80.5	5034	10	AF287811	AL559692 Human DNA AF287811 Mus muscu
30	59.6	80.5	224915	2	AC056902	AC056902 Rattus no
31	59.6	80.5	264321	10	AL507752	AL507752 Mouse DNA AJ807752 Mouse DNA
32	59.6	80.5	4169	5	AU720452	AU720452 Gallus ga
33	35.8	48.4	128177	2	BX927373	BX927373 Danio rer
34	30.8	41.6	160515	3	AL928943	AL928943 Mouse DNA
35	29.2	39.5	2535	3	AK173465	AK173465 Ciona int
36	29	39.2	68661	3	AC024805	AC024805 Caenorhab
37	29	39.2	27807	2	AC006799	AC006799 Caenorhab
38	28.2	38.1	181585	9	AL139350	AL139350 Human DNA
39	27.8	37.6	181644	9	AC104989	AC104989 Homo sapi
40	27.6	37.3	8868	3	CEN32B12A	AL023834 Caenorhab
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42	27.6	37.3	224499	14	AF882758	AF882758 Coopox vi
43	27.6	37.3	324050	1	AL591983	AL591983 Listeria
44	27.6	37.3	349980	6	AX641671	AX641671 Sequence
45	27.6	37.3	349980	6	AX641672	AX641672 Sequence

VERSION BD147310_1 GI:27853068
 KEYWORDS JP 2002191363-A/2153.
 SOURCE Homo sapiens (human)
 ORGANISM

REFERENCE 1 (bases 1 to 803)
 AUTHORS Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J.,
 Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
 TITLE Primer for synthesizing full-length cDNA and use thereof
 JOURNAL Patent: JP 2002191363-A 2153 09-JUL-2002;
 HELIX RESEARCH INSTITUTE

FEATURES source
 OS Homo sapiens (human)
 PN JP 2002191363-A/2153
 PD 09-JUL-2002
 PP 28-JUL-2000 JP 20020280990
 PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU
 PI SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,
 PI KEIICHI NAGAI, TETSUJI OTSUKI
 PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/00 CC
 Primer for synthesizing full-length cDNA and use thereof FH Key
 FT Source 1. . 803
 location/Qualifiers /organism='Homo sapiens (human)'.
 ORIGIN

Query Match 100.0%; Score 74; DB 6; Length 803;
 Best Local Similarity 100.0%; Pred. No. 1.8e-17;
 Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 PC

Qy 1 ATGCCAAGGGAACTTGAAGTTGTTCACTCATCGAGCCCTGGTTAGCTCAGATTCG 60
 Db 123 ATGCCAAGGGAACTTGAAGTTGTTCACTCATCGAGCCCTGGTTAGCTCAGATTCG 182
 Qy 61 AGTGGTTGACAA 74
 Db 183 AGTGGTTGACAA 196

RESULT 3
 AX867448 LOCUS AX867248 DEFINITION Sequence 2153 from Patent EP1074617. ACCESSION AX867248 VERSION AX867248.1 GI:40021619
 KEYWORDS SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens (human)

REFERENCE 1. Homo sapiens (human)
 AUTHORS Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J.,
 Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
 TITLE Primers for synthesizing full-length cDNA and their use
 JOURNAL Patent: EP 1074617-A 2153 07-EBB-2001;
 Research Association for Biotechnology (JP)
 FEATURES source
 OS Homo sapiens (human)
 PN JP 2002191363-A/2153
 PD 09-JUL-2002
 PP 28-JUL-2000 JP 20020280990
 PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU
 PI SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,
 PI KEIICHI NAGAI, TETSUJI OTSUKI
 PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/00 CC
 Primer for synthesizing full-length cDNA and use thereof FH Key
 FT Source 1. . 803
 location/Qualifiers /organism='Homo sapiens (human)'.
 ORIGIN

Query Match 100.0%; Score 74; DB 6; Length 803;
 Best Local Similarity 100.0%; Pred. No. 1.8e-17;
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 PC

Qy 1 ATGCCAAGGGAACTTGAAGTTGTTCACTCATCGAGCCCTGGTTAGCTCAGATTCG 60
 Db 123 ATGCCAAGGGAACTTGAAGTTGTTCACTCATCGAGCCCTGGTTAGCTCAGATTCG 182
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 Db 183 AGTGGTTGACAA 196

RESULT 4
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 VERSION BD157787.1 GI:2786545
 KEYWORDS SOURCE JP 2002191363-A/12630.
 ORGANISM Homo sapiens (human)

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 AUTHORS Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J., Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
 TITLE PRIMER FOR SYNTHESIZING FULL LENGTH cDNA AND USE THEREOF
 JOURNAL Patent: JP 2002191363-A 12630 09-JUL-2002;
 HELIX RESEARCH INSTITUTE

FEATURES source
 OS Homo sapiens (human)
 PN JP 2002191363-A/12630
 PD 09-JUL-2002
 PP 28-JUL-2000 JP 20020280990
 PI TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU
 PI SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU,
 PI KEIICHI NAGAI, TETSUJI OTSUKI
 PC C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/00 CC
 Primer for synthesizing full-length cDNA and use thereof FH Key
 FT Source 1. . 803
 location/Qualifiers /organism='Homo sapiens (human)'.
 ORIGIN

Query Match 100.0%; Score 74; DB 6; Length 2471;
 Best Local Similarity 100.0%; Pred. No. 2.1e-17;
 Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Qy 61 AGTGGTTGACAA 74
 Db 183 AGTGGTTGACAA 196

RESULT 5
 AX879348 LOCUS AX879348 DEFINITION Sequence 14253 from Patent EP1074617. ACCESSION AX879348 VERSION AX879348.1 GI:40034084
 KEYWORDS SOURCE Homo sapiens (human)

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: July 31, 2005, 09:42:59 ; Search time 523.938 Seconds

(without alignments) 836.092 Million cell updates/sec

Title: US-10-041-856-2_COPY_2441_2514

Perfect score: 74

Sequence: 1 atgcacaggaaactttaga.....attccggaaatgtggatcaa 74

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext: 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Listing first 45 summaries

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- 2: geneseqn1990s;*
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- 9: geneseqn2003bs;*
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- 11: geneseqn2003ds;*
- 12: geneseqn2004as;*
- 13: geneseqn2004bs;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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C	25	25.8	34.9	1563	6	ABZ12867	Abz12867 Arabidops
C	26	25.8	34.9	1563	6	ADG8872	Adg8872 A. thalia
C	27	25.8	34.9	1563	6	ADG88134	Adg88134 A. thalia
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C	33	25.4	34.3	5106	4	ABL03100	Ab03100 Drosophil
C	34	25.4	34.3	96289	13	ABD33205	Abd33205 Murine ca
C	35	25.4	34.3	110000	6	ABA90521_21	Continuation (22 o
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C	37	25.2	34.1	535	6	ABQ46133	Abq46133 Oligonucl
C	38	25.2	34.1	5623	4	ABL1300	Ab1300 Drosophil
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C	44	24.8	33.5	1244	4	AAH73113	Aah73113 Human cer
C	45	24.8	33.5	194883	11	ACN44398	Acn44398 Human gen

SUMMARIES						
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1	74	100.0	117	6 ABNB4790		
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4	74	100.0	3999	2 AAX28025	Aah1795 Human cDN	
5	74	100.0	3999	4 AAR29756	Aax28025 Human IKA	
6	74	100.0	4417	13 ADR07102	Aaf29756 Human IKA	
7	74	100.0	4788	4 AAH14533	Adr07102 Full leng	
8	74	100.0	4803	5 AAH81767	Aah14533 Human cDN	
9	74	100.0	4803	6 AAL44190	Aah81767 Human dif	
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11	74	100.0	5924	6 ABQ80569	Abq80565 Mutant hu	
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ALIGNMENTS						
RESULT 1						
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ID ABNB4790						
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AC ABNB4790;						
XX						
DT 05-NOV-2002 (first entry)						
XX						
DE ikappaB kinase-complex-associated protein exon 19-21 sequence.						
XX						
KW familial dysautonomia; Riley-Day syndrome; carrier; diagnosis; hereditary sensory neuropathy III; human; protein; ikappaB kinase-complex associated protein; ikappaB; chromosome 9q31; gene; ss.						
XX						
OS Homo sapiens.						
XX						
FR Key						
FT CDS						
FT 1. .117						
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FT /partial						
FT /product= "IKAP Peptide"						
FT /notes= "the CDS does not include a start or stop codon"						
XX EP1225232-A2.						
XX PD 24-JUL-2002.						
XX PF 17-JAN-2002; 2002EP-00001232.						
XX PR 17-JAN-2001; 2001US-0262284P.						
XX PA (RUBI) RUBIN B Y.						
XX PA (ANDE/) ANDERSON S L.						
XX PI Rubin BY, Anderson SL;						
XX DR WPI; 2002-601228/65.						
XX DR P-RSD; ABB79767.						
PT Detecting a polymorphism in a gene encoding the ikappaB kinase-complex-associated protein is used to diagnose and identify carriers of familial dysautonomia.						
PT						

XX
 PS Disclosure; Fig 1B; 16pp; English.
 XX
 CC The present sequence comprises cDNA corresponding to exons 19-21 of the
 CC IKK^α kinase complex-associated protein (IKAP) gene of an individual
 CC unaffected by familial dysautonomia (FD). It was obtained by PCR
 CC amplification using the primers given in ABN8478-89. Alignment of this
 CC sequence with that from an FD-affected individual (see ABN84791)
 CC indicated that exclusion of exon 20 in the RNA transcribed from the FD
 CC allele resulted in a frameshift, causing premature termination of the
 CC translation and a protein truncated by 619 amino acids. Normal IKAP has
 CC 1332 amino acids. The invention provides a method for detecting a
 CC polymorphism linked to a gene associated with FD. This allows the
 CC diagnosis of FD and the identification of carriers. It involves detecting
 CC a disruptive mutation in a gene encoding IKAP on chromosome 9q31. The
 CC mutation is a T to C transition in position 6 of the donor splice site of
 CC intron 20 and/or a G to C transversion of nucleotide 2390 in exon 19 of
 CC the IKAP gene.
 XX SQ Sequence 117 BP; 35 A; 22 C; 29 G; 31 T; 0 U; 0 Other;
 Query Match 100.0%; Score 74; DB 6; Length 117;
 Best Local Similarity 100.0%; Pred. No. 6.2e-18; Mismatches 0; Indels 0; Gaps 0;
 Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGCCAAGGGAACTTAGAGTGTTCATCGAGCCCTGGTTAGCTCAGATTGG 60
 Db 28 ATGCCAAGGGAACTTAGAGTGTTCATCGAGCCCTGGTTAGCTCAGATTGG 87
 QY 61 AAGTGGTTGGACAA 74
 Db 88 AAGTGGTTGGACAA 101
 RESULT 2
 AAH05318
 ID AAH05318 standard; cDNA; 803 BP.
 XX
 AC AAH05318;
 XX DT 26-JUN-2001 (first entry)
 XX DE Human cDNA clone (5'-primer) SEQ ID NO:2153.
 XX KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 OS Homo sapiens.
 XX PN EP1074617-A2.
 XX PD 07-FEB-2001.
 XX PF 28-JUL-2000; 2000BP-00116126.
 XX PR 29-JUL-1999; 990JP-00248036.
 PR 27-AUG-1999; 990JP-00300253.
 PR 11-JAN-2000; 2000JP-00118775.
 PR 02-MAY-2000; 2000JP-00183767.
 PR 09-JUN-2000; 2000JP-00241899.
 XX PA (HELI-) HELIX RES INST.
 XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 PT WPI; 2001-318749/34.
 XX
 PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

XX SQ Sequence 803 BP; 251 A; 154 C; 172 G; 222 T; 0 U; 4 Other;
 Query Match 100.0%; Score 74; DB 4; Length 803;
 Best Local Similarity 100.0%; Pred. No. 1.1e-17; Mismatches 0; Indels 0; Gaps 0;
 Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 ATGCCAAGGGAACTTAGAGTGTTCATCGAGCCCTGGTTAGCTCAGATTGG 60
 Db 123 ATGCCAAGGGAACTTAGAGTGTTCATCGAGCCCTGGTTAGCTCAGATTGG 182
 QY 61 AAGTGGTTGGACAA 74
 Db 183 AAGTGGTTGGACAA 196
 RESULT 3
 AAH15795
 ID AAH15795 standard; cDNA; 2471 BP.
 XX
 AC AAH15795;
 XX DT 26-JUN-2001 (first entry)
 XX DE Human cDNA sequence SEQ ID NO:14253.
 XX KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 OS Homo sapiens.
 XX PN EP1074617-A2.
 XX PD 07-FEB-2001.
 XX PF 28-JUL-2000; 2000BP-00116126.
 XX PR 29-JUL-1999; 990JP-00248036.
 PR 27-AUG-1999; 990JP-00300253.
 PR 11-JAN-2000; 2000JP-00118775.
 PR 02-MAY-2000; 2000JP-00183767.
 PR 09-JUN-2000; 2000JP-00241899.
 XX PA (HELI-) HELIX RES INST.
 XX Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
 PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 PT WPI; 2001-318749/34.
 XX
 PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

GenCore version 5.1.6
 Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: July 31, 2005, 14:57:07 ; Search time 153.025 seconds
 (Without alignments)
 791.274 Million cell updates/sec

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 Best Local Similarity 100.0%; Pred. No. 2.7e-19;
 Matches 74; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Issued Patents Nt.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
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4	25	33.8	601	4 US-09-949-016-124821
5	25	33.8	192302	4 US-09-949-016-124821
6	24.8	33.5	178883	4 US-09-949-016-12733
7	24.8	33.5	178884	4 US-09-949-016-13039
8	24.6	33.2	1816	4 US-09-270-76203
9	24.4	33.0	572	4 US-09-270-767-10593
10	24.2	32.7	2634	4 US-09-513-999C-3823
11	24.2	32.7	6719	3 US-09-799-451-784
12	24.2	32.7	6021	3 US-09-740-235-36
13	24.2	32.7	6021	3 US-09-740-235-2
14	24	32.4	601	4 US-09-949-016-5487
15	24	32.4	2412	4 US-09-583-110-553
16	24	32.4	2421	4 US-09-107-433-2039
17	24	32.4	21706	3 US-08-961-12829
18	23.8	32.2	102409	4 US-08-949-016-15148
19	23.6	31.9	21535	4 US-09-540-236-1400
20	23.6	31.9	21535	4 US-09-949-016-12826
21	23.6	31.9	21535	4 US-09-949-016-12827
22	23.6	31.9	21535	4 US-09-949-016-12828
23	23.6	31.9	21535	4 US-09-949-016-12829
24	23.6	31.9	21536	4 US-09-949-016-13366
25	23.6	31.9	21536	4 US-09-949-016-13367
26	23.6	31.9	21536	4 US-09-949-016-13368
27	23.6	31.9	21536	4 US-09-949-016-13369

RESULT 1
 US-08-971-244-1
 Sequence 1 Application US/08971244
 Patent No. 5891719
 GENERAL INFORMATION:
 APPLICANT: Cohen, Lucy
 APPLICANT: Bauerle, Patrick
 TITLE OF INVENTION: iKAP Proteins, Nucleic Acids and Methods
 NUMBER OF SEQUENCES: 2
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
 STREET: 75 DENISE DRIVE
 CITY: HILLSBOROUGH
 STATE: CALIFORNIA
 ZIP: 94010 USA
 COMPUTER: COMPUTER READABLE FORM:
 MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Pattern In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/971,244
 FILING DATE:
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: OSMAN, RICHARD A.
 REFERENCE/DOCKET NUMBER: T97-011
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 343-4341
 TELEFAX: (650) 343-3342
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3999 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..3996
 US-08-971-244-1

Sequence 16114, A
 Sequence 13940, A
 Sequence 13665, A
 Sequence 9788, AP
 Sequence 25000, A
 Sequence 17227, Sequence 172275, Sequence 174566, Sequence 17467, Sequence 2123, AP
 Sequence 19, AP
 Sequence 5131, AP
 Sequence 16574, A
 Sequence 16775, A
 Sequence 86782, A
 Sequence 89203, A
 Sequence 89364, A
 Sequence 26, APPL

RESULT 2
 US-09-286-891-1
 ; Sequence 1, Application US/09286891
 ; Patent No. 6177195
 ; GENERAL INFORMATION:
 ; APPLICANT: Cohen, Lucy
 ; APPLICANT: Bauerle, Patrick
 ; TITLE OF INVENTION: IKAP Proteins, Nucleic Acids and Methods
 ; NUMBER OF SEQUENCES: 2
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
 ; STREET: 75 DENISE DRIVE
 ; CITY: HILLSBOROUGH
 ; STATE: CALIFORNIA
 ; COUNTRY: USA
 ; ZIP: 94010
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/09/286,891
 ; FILING DATE:
 ; CLASSIFICATION:
 ; PRIORITY APPLICATION NUMBER: 08/971,344
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: OSMAN, RICHARD A
 ; REGISTRATION NUMBER: 36,627
 ; REFERENCE/DOCKET NUMBER: T97-011
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (650) 343-3411
 ; TELEX/FAX: (650) 343-4342
 ; INFORMATION FOR SEQ ID NO: 1:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 3999 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 1..3996
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 Db 2131 ATGCCAAGGGAACTTAACTGAGTGTTCATCATCGAGCCCTGCTTTAGCTAGATTGG 2190
 Qy 61 AGTGGTGGACAA 74
 Db 2191 AGTGGTGGACAA 2204
 RESULT 3
 US-09-949-016-13498/C
 ; Sequence 13498, Application US/0949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CIQ01307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 124821
 ; LENGTH: 601
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-124821
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 Matches 43; Conservative 0; Mismatches 30; Indels 0; Gaps 0;
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 Db 586 TGTAAAGGGAAATTCTAACATGTTCAACACAAACTATGGATTAGTATCATATC 527
 Qy 62 AGTGGTGGACAA 74
 Db 526 ATGTTATTGAA 514

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

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Title: US-10-041-856-85

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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3423954 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
Listing first 45 summaries

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3: gb_htc:*

4: gb_est3:*

5: gb_est4:*

6: gb_est5:*

7: gb_est6:*

8: gb_gbs1:*

9: gb_gbs2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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C 4	14.6	97.3	458 1	A1492495 t1280707.x
C 5	14.6	97.3	550 4	BW52147 4
C 6	14.6	97.3	668 5	BQ407386 GA_Ed010
C 7	14.6	97.3	679 5	BX313682
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C 14	13.6	90.7	235 1	AV033029
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C 20	13.6	90.7	304 6	CD410777
C 21	13.6	90.7	319 8	AZZ3449
C 22	13.6	90.7	341 5	BY214916
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CF99849 LR_PNHC

AZ237823 RPCI-23-7

AW169454 xj2be07.x

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c 37	13.6	90.7	475 8	AZ288694 RPCI-23-1
c 38	13.6	90.7	482 6	CA990184 hab3a07.
c 39	13.6	90.7	495 4	BI449178 daa9h05
c 40	13.6	90.7	503 2	AW603835 Cmo-CN004
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Best Local Similarity 93.3%; Pred. No. 1.2e+03; Mismatches 0; Indels 0; Gaps 0;

REFERENCE	1 (bases 1 to 456)
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL	Unpublished (1997)
COMMENT	Email: cgaps-mail.nih.gov Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D. DNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLL at: www-bio.llnl.gov/bcrp/image.html Insert Length: 771 Std Error: 0.00 Seq primer: -AGUP from Gibco High quality sequence stop: 451.
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	/lab_host="DH10B"
	/clone_id="NCI-CGAP_Kid11"
	/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 145607-145675, and 150552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."
ORIGIN	
Query Match	97.3%; Score 14.6; DB 1; Length 456;
Best Local Similarity	93.3%; Pred. No. 1.3e+03; Mismatches 0; Indels 0; Gaps 0;
Matches	14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
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LOCUS	AI492495 458 bp mRNA linear EST 30-MAR-1999
DEFINITION	t128f07.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2131813 3'
	similar to contains_MER7.t3 MER7 MER7 repetitive element ; mRNA sequence.
ACCESSION	AI492495
VERSION	AI492495.1 GI:4393498
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butcheria; Primates; Catarrhini; Homindae; Homo.
REFERENCE	1 (bases 1 to 458)
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL	Unpublished (1997)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaps-mail.nih.gov Tissue Procurement: Christopher Moskaluk, M.D., Michael R. Emmert-Buck, M.D., Ph.D. DNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Preparation: M. Bento Soares, Ph.D. DNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLL at: www-bio.llnl.gov/bcrp/image.html Insert Length: 771 Std Error: 0.00 Seq primer: -AGUP from Gibco High quality sequence stop: 451.
FEATURES	Location/Qualifiers
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	/clone="IMAGE:2131814"
	/lab_host="DH10B"
	/clone_id="NCI-CGAP_Kid11"
	/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 145607-145675, and 150552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."
ORIGIN	
Query Match	97.3%; Score 14.6; DB 1; Length 456;
Best Local Similarity	93.3%; Pred. No. 1.3e+03; Mismatches 0; Indels 0; Gaps 0;
Matches	14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
RESULT 3	AI492486/c
LOCUS	AI492486 456 bp mRNA linear EST 30-MAR-1999
DEFINITION	t128e08.x1 NCI CGAP Kid11 Homo sapiens cDNA clone IMAGE:2131814 3'
	similar to contains_MER7.t3 MER7 MER7 repetitive element ; mRNA sequence.
ACCESSION	AI492486
VERSION	AI492486.1 GI:4393489
KEYWORDS	EST.
SOURCE	Homo sapiens (human)
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butcheria; Primates; Catarrhini; Homindae; Homo.
REFERENCE	1 (bases 1 to 458)
AUTHORS	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap .
TITLE	National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
JOURNAL	Unpublished (1997)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: cgaps-mail.nih.gov Tissue Procurement: Christopher Moskaluk, M.D., Michael R. Emmert-Buck, M.D., Ph.D. DNA Library Preparation: M. Bento Soares, Ph.D. CDNA Library Arrayed by: Greg Lennon, Ph.D. DNA Sequencing by: Washington University Genome Sequencing Center Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LNLL at: www-bio.llnl.gov/bcrp/image.html Insert Length: 771 Std Error: 0.00 Seq primer: -AGUP from Gibco High quality sequence stop: 451.
FEATURES	Location/Qualifiers
source	1..456
	/organism="Homo sapiens"
	/mol_type="mRNA"
	/db_xref=taxon:9606"
	/clone="IMAGE:2131814"
	/lab_host="DH10B"
	/clone_id="NCI-CGAP_Kid11"
	/note="Organ: kidney; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site 1: Not I; Site 2: Eco RI; Plasmid DNA from the normalized library NCI-CGAP Kid3 was prepared, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (cloneIDs 1322376-1323911, 145607-145675, and 150552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."
ORIGIN	
Query Match	97.3%; Score 14.6; DB 1; Length 456;
Best Local Similarity	93.3%; Pred. No. 1.3e+03; Mismatches 0; Indels 0; Gaps 0;
Matches	14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

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Post-processing	Score	Length	DB	ID	Query	Result No.
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C 3	14.6	97.3	246240	2	Sequence 1436, AP	4
C 4	13.6	90.7	390	4	Sequence 233, AP	5
C 5	13.6	90.7	390	4	Sequence 34133, A	6
C 6	13.6	90.7	601	4	Sequence 85899, A	
C 7	13.6	90.7	601	4	Sequence 130381,	
C 8	13.6	90.7	601	4	Sequence J, Appli	
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C 10	13.6	90.7	2360	3	Sequence 4000, Ap	
C 11	13.6	90.7	3105	4	Sequence 1, Appli	
C 12	13.6	90.7	7355	4	Sequence 37, Appli	
C 13	13.6	90.7	13417	2	Sequence 37, Appli	
C 14	13.6	90.7	13117	3	Sequence 37, Appli	
C 15	13.6	90.7	13417	3	Sequence 37, Appli	
C 16	13.6	90.7	50000	3	Sequence 3, Appli	
C 17	13.6	90.7	56694	4	Sequence 12568, A	
C 18	13.6	90.7	56702	4	Sequence 15423, A	
C 19	13.6	90.7	147382	4	Sequence 14624, A	
C 20	13.6	90.7	422592	4	Sequence 14182, A	
C 21	13.2	88.0	601	4	Sequence 34134, A	
C 22	13.2	88.0	601	4	Sequence 130382, A	
C 23	13.2	88.0	601	4	Sequence 141948, A	
C 24	13.2	86.7	601	4	Sequence 57865, A	
C 25	13.2	86.7	601	4	Sequence 57866, A	
C 26	13.2	86.7	601	4	Sequence 78824, A	
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Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT 1
 US-08-724-394A-20/C
 Sequence 20, Application US/08724394A

GENERAL INFORMATION:

APPLICANT: Feder, John N.
 PATENT NO. 5872237

APPLICANT: Krommel, Gregory S.
 APPLICANT: Lauer, Peter M.

APPLICANT: Ruddy, David A.
 APPLICANT: Thomas, Winston

APPLICANT: Tsuchihashi, Zenta

APPLICANT: Wolff, Roger K.

TITLE OF INVENTION: Megabase Transcript Map:
 TITLE OF INVENTION: Sequences and Antibodies
 NUMBER OF SEQUENCES: 31

CORRESPONDENCE ADDRESS:
 ADDRESSEE: TOWNSEND and TOWNSEND and CREW L
 STREET: Two Embarcadero Center, 8th Floor
 CITY: San Francisco
 STATE: CA

COUNTRY: USA
 ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/724,394A
 FILING DATE: 01-OCT-1996
 CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Fitts, Renee A.
 REGISTRATION NUMBER: 35,136
 REFERENCE/DOCKET NUMBER: 017957-000100

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-576-0200
 TELEFAX: 415-576-0300

INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:
 LENGTH: 246240 base pairs

TYPE: nucleic acid
 STRANDEDNESS: not relevant
 TOPOLOGY: not relevant

MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 1..246240

OTHER INFORMATION: /note= "HLA-H.CONTIG"
 US-08-724-394A-20

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Sequence 123965,
Sequence 171546,
Sequence 193187,
Sequence 71, App
Sequence 650, App
Sequence 650, App
Sequence 2201, App
Sequence 223, App
Sequence 424, App
Sequence 1204, App
Sequence 3, Appli
Sequence 1, Appli
Sequence 5675, App
Sequence 8877, App

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 Db 155908 AAGTAAAGYGCATG 155894

RESULT 2
 Sequence 21, Application US/08724394A
 Patent No. 5872237
 GENERAL INFORMATION:
 APPLICANT: Feder, John N.
 APPLICANT: Krommal, Gregory S.
 APPLICANT: Lauer, Peter M.
 APPLICANT: Ruddy, David A.
 APPLICANT: Thomas, Winston
 APPLICANT: Tsuichihashi, Zenta
 APPLICANT: Wolff, Roger K.
 APPLICANT: Wolff, Roger K.
 TITLE OF INVENTION: Megabase Transcript Map: No. 5872237el
 NUMBER OF SEQUENCES: 31
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
 STREET: Two Embarcadero Center, 8th Floor
 CITY: San Francisco
 STATE: CA
 COUNTRY: USA
 ZIP: 94111-3834
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patient Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/724,394A
 FILING DATE: 01-OCT-1996
 CLASSIFICATION: 536
 ATTORNEY/AGENT INFORMATION:
 NAME: FITTB, Renee A.
 REGISTRATION NUMBER: 35,136
 REFERENCE/DOCKET NUMBER: 017957-000100
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 415-576-0200
 TELEFAX: 415-576-0200
 INFORMATION FOR SEQ ID NO: 22:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 246240 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: not relevant
 TOPOLOGY: not relevant
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..246240
 OTHER INFORMATION: /note= "HLA-H.CONTIG"
 US-08-724-394A-22

INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 246240 base pairs
 TYPE: nucleic acid
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 TOPOLOGY: not relevant
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: 1..246240
 OTHER INFORMATION: /note= "HLA-H.CONTIG"
 US-08-724-394A-21

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 Best Local Similarity 93.3%; Pred. No. 1.2e+02; 1; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AAGTAAAGYGCATG 15
 Db 155908 AAGTAAAGYGCATG 155894

RESULT 4
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 Sequence 1436, Application US/09134000C
 Patent No. 6617156
 GENERAL INFORMATION:
 APPLICANT: Lynn Doucette-Stamm et al
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 TITLE OF INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
 FILE REFERENCE: 03796-032
 CURRENT APPLICATION NUMBER: US/09/134,000C
 CURRENT FILING DATE: 1998-08-13
 PRIOR APPLICATION NUMBER: US 60/055,778
 PRIOR FILING DATE: 1997-08-15
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 1436

RESULT 3
 US-08-724-394A-22/c
 Sequence 22, Application US/08724394A


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RESULT 2
; Sequence 34903, Application US/10719993
; Publication No. US2004026884A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 5542
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 34903
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-34903

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; Sequence 3816, Application US/10487901
; Publication No. US20050091708A1
; GENERAL INFORMATION:
; APPLICANT: Oreido, Jeremiah Vincent
; APPLICANT: McCleary, David
; APPLICANT: Pell, Randy
; APPLICANT: Miller, Barbara
; APPLICANT: Weglarz, Thaddeus
; APPLICANT: Gachotte, Daniel
; APPLICANT: Blakeslee, Beth
; APPLICANT: Larinua, Ignacio
; APPLICANT: Reddy, Avru
; APPLICANT: Shukla, Vipula
; APPLICANT: Crosley, Rodney
; TITLE OF INVENTION: Nucleic Acid Compositions Conferring Altered Metabolic Char
; FILE REFERENCE: DOW-01552
; CURRENT APPLICATION NUMBER: US/10/487,901
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 7560
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 4354
; LENGTH: 593
; TYPE: DNA
; FEATURE:
; OTHER INFORMATION: Synthetic
; US-10-487-901-4354

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; Publication No. US20050091708A1
; GENERAL INFORMATION:
; APPLICANT: Oreido, Jeremiah Vincent
; APPLICANT: McCleary, David
; APPLICANT: Pell, Randy
; APPLICANT: Miller, Barbara
; APPLICANT: Weglarz, Thaddeus
; APPLICANT: Gachotte, Daniel
; APPLICANT: Blakeslee, Beth
; APPLICANT: Larinua, Ignacio
; APPLICANT: Reddy, Avru
; APPLICANT: Shukla, Vipula
; APPLICANT: Crosley, Rodney
; TITLE OF INVENTION: Nucleic Acid Compositions Conferring Altered Metabolic Characteri
; FILE REFERENCE: DOW-08552
; CURRENT APPLICATION NUMBER: US/10/487,901
; CURRENT FILING DATE: 2004-02-26
; NUMBER OF SEQ ID NOS: 7560
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3816
; LENGTH: 369
; TYPE: DNA
; ORGANISM: Trichoderma harzianum
; US-10-487-901-3816

Query Match          97.3%; Score 14.6; DB 21; Length 369;
Best Local Similarity 93.3%; Pred. No. 2.8e+02; 0; Indels 0; Gaps 0;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy      1 AAGTAGYGCCATTG 15
Db      43 AAGTAGGCGCATTG 29

RESULT 5
; Sequence 32790, Application US/10027632
; Publication No. US2002019837A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
; FILE REFERENCE: 108872.129
; CURRENT APPLICATION NUMBER: US/10/027,632
; CURRENT FILING DATE: 2002-04-30
; PRIOR APPLICATION NUMBER: US 60/218,006
; PRIOR FILING DATE: 2000-07-12
; PRIOR APPLICATION NUMBER: US 60/198,676
; PRIOR FILING DATE: 2000-04-20
; PRIOR APPLICATION NUMBER: US 60/193,483
; PRIOR FILING DATE: 2000-03-29
; PRIOR APPLICATION NUMBER: US 60/185,218
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/167,363
; PRIOR FILING DATE: 1999-11-23
; PRIOR APPLICATION NUMBER: US 60/156,358
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/146,002
; PRIOR FILING DATE: 1999-08-09
; NUMBER OF SEQ ID NOS: 325720
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 32790
; LENGTH: 721
; TYPE: DNA
; ORGANISM: Human
; US-10-027-632-32790

Query Match          97.3%; Score 14.6; DB 13; Length 721;
Best Local Similarity 93.3%; Pred. No. 3e+02; 0; Indels 0; Gaps 0;
Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Qy      1 AAGTAGYGCCATTG 15

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Sequence 14561, A
Sequence 14562, A
Sequence 14564, A
Sequence 14565, A
Sequence 14566, A
Sequence 14567, A
Sequence 88086, A
Sequence 88, APP
Sequence 15370, A
Sequence 814, APP
Sequence 1750, APP
Sequence 7, APPL
Sequence 139, APP
Sequence 3932, APP
Sequence 2766, APP
Sequence 2566, APP
Sequence 3759, APP
Sequence 16186, A

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RESULT 2
US-09-286-891-1
; Sequence 1, Application US/09286891
; Patent No. 6172195
GENERAL INFORMATION:
; APPLICANT: Cohen, Lucy
; TITLE OF INVENTION: IκAP Proteins, Nucleic Acids and Methods
; NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP
; STREET: 75 DENISE DRIVE
; CITY: HILLSBOROUGH
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94010
COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/286, 891
; FILING DATE: 1999-03-17
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/971, 244
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36, 627
; REFERENCE/DOCKET NUMBER: T97-011
TELECOMMUNICATION INFORMATION:
; TELEFAX: (650) 343-4342
; INQUIRIES FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
; LENGTH: 3999 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3996
US-09-286-891-1

Query Match 90.7%; Score 13.6; DB 4; Length 798;
Best Local Similarity 92.9%; Pred. No. 1.1e+02; Mismatches 0; Indels 0; Gaps 0;
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GTTCACSGATGTC 15
Db 249 GTTCACCGATTGTC 262

RESULT 4
US-09-270-767-28047
; Sequence 2047, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: HOMBURGER, et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7726-094
; CURRENT APPLICATION NUMBER: US/09/270, 767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 28047
; LENGTH: 242
; TYPE: DNA
; ORGANISM: *Drosophila melanogaster*
; US-09-270-767-28047

Query Match 86.7%; Score 13; DB 4; Length 242;
Best Local Similarity 86.7%; Pred. No. 2.3e+02; Mismatches 1; Indels 0; Gaps 0;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGTCACSGATGTC 15
Db 143 GTGCCACGGATTGTC 157

RESULT 5
US-09-270-767-12302
; Sequence 12302, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: HOMBURGER, et al.
; TITLE OF INVENTION: Nucleic acids and proteins of *Drosophila melanogaster*
; FILE REFERENCE: File Reference: 7726-094
; CURRENT APPLICATION NUMBER: US/09/270, 767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12302
; LENGTH: 347
; TYPE: DNA
; ORGANISM: *Drosophila melanogaster*
; US-09-270-767-12302

Query Match 86.7%; Score 13; DB 4; Length 347;
Best Local Similarity 86.7%; Pred. No. 2.4e+02; Mismatches 1; Indels 0; Gaps 0;
Matches 13; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGTCACSGATGTC 15
Db 248 GTGCCACGGATTGTC 262

RESULT 6
US-09-252-991A-2680/C
; Sequence 2680, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield, et al.

Run on: July 31, 2005, 14:44:02 ; Search time 431.759 Seconds
 (without alignments)
 1683.411 Million cell updates/sec

OM nucleic - nucleic search, using sw model

Title: US-10-041-856-85
 Perfect score: 15 seqs, 24227607955 residues
 Sequence: 1 aagtaaagyggccatgt 15

Scoring table: IDENTITY-NUC
 Gappen 10.0 , Gapext 1.0

Minimum DB seq length: 0
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

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 2: gb_hg:/*
 3: gb_in:/*
 4: gb_om:/*
 5: gb_ov:/*
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 7: gb_ph:/*
 8: gb_pl:/*
 9: gb_pr:/*
 10: gb_ro:/*
 11: gb_stb:/*
 12: gb_sy:/*
 13: gb_un:/*
 14: gb_vn:/*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Match	Length	DB	ID	Description
1	14.6	97.3	15	6	AKX76132	AX676132 Sequence Z94216 H.sapiens f LOCUS
2	14.6	97.3	312	11	HSPAP32D12	DEFINITION Sequence 85 from patent WO20059381. 15 bp
3	14.6	97.3	1165	8	AKL11717	ACCESSION AX676132.1 GI:29833816
4	14.6	97.3	20938	9	AY613922	KEYWORDS synthetic construct
5	14.6	97.3	37552	6	SC9302X	SOURCE ORGANISM
6	14.6	97.3	66779	6	AKX76048	REFERENCE other sequences; artificial sequences.
7	14.6	97.3	78376	9	AL539632	REFERENCE Slaugenhouette, S. and Gusella, J.F.
8	14.6	97.3	83905	2	ACU25337	REFERENCE Gene for identifying individuals with familial dysautonomia
9	14.6	97.3	10220	9	AJ031775	FEATURES
10	14.6	97.3	104339	2	AF235105	source "unassigned DNA"
11	14.6	97.3	105335	9	AC107374	/mol type="unassigned DNA"
12	14.6	97.3	110000	8	CR382123	/db xref="taxon:32630"
13	14.6	97.3	11581	10	AL807245	/note="Probe"
14	14.6	97.3	146022	9	ACU26881	
15	14.6	97.3	147860	5	BK255929	RESULT 2
16	14.6	97.3	149866	9	ACU25627	ACCESSION H.sapiens flow-sorted chromosome 6 HindIII fragment, SC6PA2D12,
17	14.6	97.3	150355	9	HSU364H10	LOCUS
18	14.6	97.3	150846	2	ACU036173	DEFINITION sequence tagged site.
19	14.6	97.3	152077	9	AJ008627	ACCESSION 294216
						VERSION 294216.1 GI:1945210
						KEYWORDS STS; single read.
						SOURCE Homo sapiens (human)
						ORGANISM Homo sapiens

ALIGNMENTS

Result No.	Score	% Match	Length	DB	ID	Description
1	14.6	97.3	15	6	AKX76132	RESULT 1
						AX676132 Sequence 85 from patent WO20059381. 15 bp
						LOCUS
						DEFINITION
						ACCESSION AX676132.1 GI:29833816
						VERSION
						KEYWORDS
						SOURCE
						ORGANISM
						REFERENCE
						OTHER REFERENCES
						1 Slagenhaupt, S. and Gusella, J.F.
						REFERENCE Patent: WO 02059381-A 85 01-AUG-2002;
						REFERENCE The General Hospital Corporation (US)
						JOURNAL
						FEATURES
						source
						ORIGIN
						Query March 97.3%; Score 14.6; DB 6; Length 15;
						Best Local Similarity 100.0%; Pred. No. 2.4e+03; Mismatches 0; Indels 0; Caps 0;
						Matches 15; Conservative 0;
						QY
						1 AGTAAAGYGGCCATG 15
						Db
						1 AAGTAAGYGGCCATG 15

		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE		1 (bases 1 to 312)
AUTHORS		Mungall,A.J., Huckle,E., Langford,C., Ross,M.T. and Hunt,S.E.
TITLE		Direct Submission
JOURNAL		Submitted (17-APR-1997) The Sanger Centre, Wellcome Trust Genome Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail contact: humquery@sanger.ac.uk
COMMENT		Vector: pS21K+
FEATURES		Location/Qualifiers
SOURCE		1 . . 312 /organism="Homo sapiens" /mol_type="genomic DNA" /db_xref="taxon:9606" /chromosome="6" /clone="SC6A32D12" /sex="Female" /tissue_type="LEBV lymphoblastoid cell line" /clone Lib="SC6P6" /dev_stage="adult" /note="The estimated purity of the flow-sorted chromosome 6 library is >97%"
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Query Match		97.3%; Score 14.6; DB 11; Length 312;
Best Local Similarity		93.3%; Pred. No. 1.7e+03;
Matches		1; Mismatches 0; Indels 0; Gaps 0;
Qy		1 AAGTAAAGGCCATG 15 :
Db		38 AGATAAGGCCATG 24
RESULT 3		
AK111717/c	AK111717	1165 bp mRNA linear PLN 29-OCT-2003
DEFINITION	Oryza sativa (japonica cultivar-group)	Oryza sativa (japonica cultivar-group) cDNA clone:J023022A01, full insert sequence.
ACCESSION	AK111717	AK111717
VERSION	AK111717.1	GR:37988280
KEYWORDS	FLI_CDNA; CAP trapper; Oryza sativa (japonica cultivar-group)	Oryza sativa (japonica cultivar-group)
SOURCE	Bukaryota; Viridiplantae; Streptophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Bhrartoideae; Oryzeae; Oryza.	
REFERENCE		The Rice Full-length cDNA Consortium, National Institute of Agrobiological Sciences Rice Full-length cDNA Project Team; Fujimura,T., Ikeda,R., Ishibiki,J., Kawamata,M., Kobayashi,M., Kodama,T., Kuroseki,T., Kubumegi,T., Lu,M., Masuda,H., Miura,J., Mizuno,K., Narikawa,R., Niikura,J., Oka,M., Ryu,R., Sugano,S., Sugiyama,A., Suzuki,Y., Tsunoda,Y., Ueda,M., Xie,Q., Yokomizo,S., Yoshimura,A., Matsubara,K., and Murakami,K. Yamamoto,M. and Nakahama,Y.
AUTHORS		FAIR Genome Sequencing & Analysis Group; Ootomo,Y., Iida,Y., Fujimura,T., Ikeda,R., Ishibiki,J., Kawamata,M., Kobayashi,M., Kodama,T., Kuroseki,T., Kubumegi,T., Lu,M., Masuda,H., Miura,J., Mizuno,K., Narikawa,R., Niikura,J., Oka,M., Ryu,R., Sugano,S., Sugiyama,A., Suzuki,Y., Tsunoda,Y., Ueda,M., Xie,Q., Yokomizo,S., Yoshimura,A., Matsubara,K., and Murakami,K. Genome Exploration Research Group in Riken, Adachi,J., Aizawa,M., Akimura,T., Arakawa,T., Carninci,P., Fukuda,S., Hayatsu,N., Hiramoto,K., Hiraoka,T., Hoshizume,W., Hayashida,K., Hayatsu,N., Hiramoto,K., Itoh,M., Nagawa,I., Kanagawa,S., Katoh,H., Kawai,J., Kishikawa-Hirokane,T., Kojima,Y., Kondo,S., Konno,H., Kouda,M., Koyai,S., Kurihara,C., Matsuyama,T., Miyazaki,A., Murata,M., Nakamura,M., Nishi,K., Nomura,K., Numasaki,R., Ohno,M., Obato,N., Ota,Y., Saitoh,H., Sakai,C., Sakai,K., Sakazume,N., Sano,H., Sakai,D., Sato,K., Shibata,K., Shinagawa,A., Shiraki,T., Sobabe,Y., Tagami,M., Tagami-Takeda,Y., Tagawa,A., Takahashi,F., Toya,T., Waki,K., Yasunishi,A. and Hayashizaki,Y.
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SOURCE		1 . . 1165 /organism="Oryza sativa (japonica cultivar-group)" /mol_type="mRNA" /cultivar="Nipponbare" /db_xref="taxon:39947" /clone="J023022A01"
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Query Match		97.3%; Score 14.6; DB 8; Length 1165;
Best Local Similarity		93.3%; Pred. No. 1.4e+03;
Matches		1; Mismatches 0; Indels 0; Gaps 0;
Qy		1 AAGTAAAGGCCATG 15 :
Db		61 AGATAAGGCCATG 47

GenCore version 5.1.6
 Copyright (c) 1993 - 2005 Compugen Ltd.

On nucleic - nucleic search, using sw model
 Run on: July 31, 2005, 09:42:59 ; Search time 106.204 Seconds
 (without alignments)
 836.092 Million cell updates/sec

Title: US-10-041-856-85
 Perfect score: 15
 Sequence: 1 aagtaagyggcattg 15

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues
 Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0
 Maximum DB seq length: 200000000
 Post-processing: Minimum Match 0%
 listing first 45 summaries

Database : N_Geneseq_16Dec04:*

1: geneseqn1980s:*

2: geneseqn1990s:*

3: geneseqn2000s:*

4: geneseqn2010s:*

5: geneseqn20010s:*

6: geneseqn20020s:*

7: geneseqn20020s:*

8: geneseqn20030s:*

9: geneseqn20030s:*

10: geneseqn20030s:*

11: geneseqn20030s:*

12: geneseqn20040s:*

13: geneseqn20040s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description
 1 14.6 97.3 15 6 ABQ80561 Abqg0561_IKBKAP standard; DNA; 15 BP.

2 14.6 97.3 369 10 ADK56433 Adk56433_Plant DNA
 3 14.6 97.3 593 10 ADK56971 Adk56971_Plant DNA

4 14.6 97.3 66479 6 ABQ80567 Abqg0567_Mutant_hu

5 14.6 97.3 66479 6 ABQ80566 Abqg0566_Mutant_hu

6 14.6 97.3 66479 6 ABQ80568 Abqg0568_Human_IKB

7 14.6 97.3 66479 6 ABQ80565 Abqg0565_Human_IKB

8 14.6 97.3 237326 2 AAV57903 Abqg7903_Hereditar

9 13.6 90.7 228 6 ABQ61963 Abqg61963_Listeria

10 13.6 90.7 390 10 ADH83551 Adh83551_Enterococc

11 13.6 90.7 430 6 AEK30463 Abk30463_Human_G-p

12 13.6 90.7 570 6 AMS6719 Corn DMT

13 13.6 90.7 570 11 ADM35999 Adm35999_DMT_polyN

14 13.6 90.7 595 6 AAS96714 Aas96714_Corn DMT

15 13.6 90.7 595 11 ADM3589 Adm3589_DMT_PolyN

16 13.6 90.7 751 10 ADK60125 Adk60125_Plant DNA

17 13.6 90.7 1020 2 AAT40142 Aat40142_A_niger

18 13.6 90.7 1446 6 ABZ78269 Abz78269_A_niger

19 13.6 90.7 1453 2 AXL13183 Axl13183_Enterococc

20 13.6 90.7 1453 6 ABS8978 Abs8978_Enterococc

ALIGNMENTS

c c 21 13.6 90.7 1587 13 ADR88965 Adr88965_A_thalia
 c c 22 13.6 90.7 1957 4 ABA6165 Aba6165_Human_bre
 c c 23 13.6 90.7 1957 4 AAK30369 Aak30369_Human_bon
 c c 24 13.6 90.7 2360 2 AAT40148 Aat40148_A_niger
 c c 25 13.6 90.7 2520 6 ABZ78212 Abz78212_A_niger
 c c 26 13.6 90.7 3105 10 ADR03715 Adr03715_Bacterial
 c c 27 13.6 90.7 3172 13 ADR10043 Adr10043_Human_the
 c c 28 13.6 90.7 3774 4 AAK70878 Aak70878_Human_imm
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 c c 32 13.6 90.7 12481 4 ABD20544 Abd20544_Drosophil
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 c c 34 13.6 90.7 26705 12 ADG62810 Adg62810_Pseudomon
 c c 35 13.6 90.7 32986 4 AAK69758 Aak69758_Human_imm
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 c c 37 13.6 90.7 56258 11 ACN4455 Acn4455_Mouse_gen
 c c 38 13.6 90.7 62488 6 AAD4981 Aad4981_Human_EMR
 c c 39 13.6 90.7 62488 6 ABO69245 Abo69245_Continuation_(15_o
 c c 40 13.6 90.7 110000 6 ABO67195 Abo67195_Continuation_(4_o
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 c c 43 13.6 90.7 151152 13 ADR52892 Adr52892_Human_canc
 c c 44 13.6 90.7 163382 13 ADR32659 Adr32659_Bifidobac
 c c 45 13.6 90.7 349980 6 ABQ81845 Abq81845_Bifidobac

The present invention relates to methods and compositions useful for detecting mutations which cause Familial Dysautonomia (FD), Riley-Day syndrome, Hereditary Sensory and Autonomic Neuropathy Type III (ONIM 223800). It was found that mutations in the IKBKAP gene (see ABQ80565) are associated with FD. The mutation associated with the major haplotype of FD, FD1 mutation, is a base pair (bp) mutation, where the thymine

CC nucleotide located at bp 6 of intron 20 in the IKBAP gene is replaced
 CC with a cytosine. This results in skipping of exon 20 in the mRNA from FD
 CC patients, although they continue to express varying levels of wild-type
 CC message in a tissue-specific manner. The mutation associated with the
 minor haplotype, FD2 mutation, is a bp mutation, where the guanine
 CC nucleotide at bp 2397 (bp 73 of exon 19) is replaced with a cytosine.
 CC This bp mutation causes an arginine to proline missense mutation (R696P)
 CC in the IKBAP protein, which is predicted to disrupt a potential
 phosphorylation site. The IKBAP nucleic acid sequences are useful for
 CC identifying a subject with FD and for rapid carrier screening. The IKBAP
 CC gene maps to chromosome 9q31. Probes ABQ80561-ABQ80562 were used to
 CC detect the mutations in the IKBAP gene
 XX Sequence 15 BP; 5 A; 2 C; 4 G; 3 T; 0 U; 1 Other;
 Query Match 97.3%; Score 14.6; DB 6; Length 15;
 Best Local Similarity 100.0%; Pred. No. 1e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 15; Conservative 15; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AGTAAAGGCCATG 15
 Db 1 AGTAAGGCCATG 15
 RESULT 2
 ADK56433/C
 ID ADK56433 standard; DNA; 369 BP.
 XX AC
 XX AC
 XX DT 06-MAY-2004 (first entry)
 DE Plant DNA sequence which confers altered metabolic characteristic #3816.
 XX KW altered metabolic characteristic; plant; acid metabolism;
 KW alcohol metabolism; fatty acid metabolism;
 KW branched fatty acid metabolism; alkaloid metabolism;
 KW amino acid metabolism; ester metabolism; glyceride metabolism;
 KW phenolic metabolism; carbohydrate metabolism; sterol metabolism;
 KW terpene metabolism; isoprenoid metabolism; alkene metabolism;
 KW alkyne metabolism; hydrocarbon metabolism; ketone metabolism;
 KW quinone metabolism; disease resistance; gene shuffling; sexual PCR; db.
 OS XX Hypocrea lixii.
 XX PN WO2003020936-A1.
 XX PD 13-MAR-2003.
 XX PF 30-AUG-2002; 2002WO-US027884.
 XX PR 31-AUG-2001; 2001US-0316471P.
 XX PA (DOWC) DOW CHEM CO.
 XX PA (DOWC) DOW AGROSCIENCES LLC.
 XX PI Weglarz T, Blakeslee B, McCreary DA, Pell RJ, Miller BA,
 XX PI Oriedo JVB, Crosley R, Reddy AS, Shukla V, Larrinua I, Miller BA,
 XX DR WPI; 2003-313091/30.
 XX PT Novel genes that confer altered metabolic characteristics in Nicotiana
 PT benthamiana plants, useful for altering the levels of metabolites e.g.
 PT acids, fatty acids, amino acids, carbohydrates, hydrocarbons and sterols.
 XX PS Claim 1; SEQ ID NO 3816; 2576pp; English.
 XX PT Novel genes that confer altered metabolic characteristics in Nicotiana
 CC benthamiana plants, useful for altering the levels of metabolites e.g.
 CC acids, fatty acids, amino acids, carbohydrates, hydrocarbons and sterols.
 XX PS Claim 1; SEQ ID NO 4354; 2576pp; English.
 XX PT Novel genes that confer altered metabolic characteristics in Nicotiana
 CC benthamiana plants, useful for producing plants with an altered metabolic
 CC characteristic, such as: altered acid metabolism, alcohol metabolism,
 CC fatty acid metabolism, branched fatty acid metabolism, alkaloid or other
 CC base metabolism, altered amino acid metabolism, altered ester metabolism,
 CC altered glyceride metabolism, altered phenolic metabolism, altered
 CC carbohydrate metabolism, altered sterol, oxygenated terpene, or
 CC isoprenoid metabolism, alkene or alkyne metabolism, hydrocarbon
 CC metabolism, ketone or quinone metabolism. The DNA sequences of the
 CC invention may be used to provide disease resistance in a plant and gene
 CC DNA sequence of the invention.

Query Match 97.3%; Score 14.6; DB 10; Length 369;
 Best Local Similarity 93.3%; Pred. No. 1.5e+02; Mismatches 0; Indels 0; Gaps 0;
 Matches 14; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 QY 1 AAGTAGGAGGCCATG 15
 Db 43 AGTAGGAGGCCATG 29
 RESULT 3
 ADK56971/C
 ID ADK56971 standard; DNA; 593 BP.
 XX AC
 XX ADK56971;
 XX DT 06-MAY-2004 (first entry)
 DE Plant DNA sequence which confers altered metabolic characteristic #4354.
 XX KW altered metabolic characteristic; plant; acid metabolism;
 KW branched fatty acid metabolism; alkaloid metabolism;
 KW amino acid metabolism; ester metabolism; glyceride metabolism;
 KW phenolic metabolism; carbohydrate metabolism; sterol metabolism;
 KW terpene metabolism; isoprenoid metabolism; alkene metabolism;
 KW alkyne metabolism; hydrocarbon metabolism; ketone metabolism;
 KW quinone metabolism; disease resistance; gene shuffling; sexual PCR; db.
 OS XX Unidentified.
 XX PN WO2003020936-A1.
 XX PD 13-MAR-2003.
 XX PF 30-AUG-2002; 2002WO-US027884.
 XX PR 31-AUG-2001; 2001US-0316471P.
 XX PA (DOWC) DOW CHEM CO.
 XX PA (DOWC) DOW AGROSCIENCES LLC.
 XX PI Weglarz T, Blakeslee B, McCreary DA, Pell RJ, Miller BA,
 XX PI Oriedo JVB, Crosley R, Reddy AS, Shukla V, Larrinua I, Miller BA,
 XX DR WPI; 2003-313091/30.
 XX PT Novel genes that confer altered metabolic characteristics in Nicotiana
 CC benthamiana plants, useful for producing plants with an altered metabolic
 CC characteristic, such as: altered acid metabolism, alcohol metabolism,
 CC fatty acid metabolism, branched fatty acid metabolism, alkaloid or other
 CC base metabolism, altered amino acid metabolism, altered ester metabolism,
 CC altered glyceride metabolism, altered phenolic metabolism, altered
 CC carbohydrate metabolism, altered sterol, oxygenated terpene, or
 CC isoprenoid metabolism, alkene or alkyne metabolism, hydrocarbon
 CC metabolism, ketone or quinone metabolism. The DNA sequences of the
 CC invention may be used to provide disease resistance in a plant and gene

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: July 31, 2005, 09:42:59 ; Search time 106.204 Seconds
(without alignments)
836.092 Million cell updates/sec

Title: US-10-041-856-86
Perfect score: 15
Sequence: 1 ggttccacggattgtc 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database : N_Geneseq_16Dec04:
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6: geneseqn2002aa:*

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8: geneseqn2003aa:*

9: geneseqn2003bs:*

10: geneseqn2003cs:*

11: geneseqn2003cb:*

12: geneseqn2004aa:*

13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

RESULT	1
ID	ABQ80562
ID	ABQ80562 standard; DNA; 15 BP.
XX	
AC	ABQ80562;
XX	
DT	08-NOV-2002 (first entry)
XX	
DE	IKBKAP probe #2.
XX	
KW	Human; IKBKAP; Familial Dysautonomia; FD; Riley-Day syndrome; KW Hereditary Sensory and Autonomic Neuropathy Type III; carrier screening; KW probe; ss.
XX	
OS	Homo sapiens.
XX	
WO200259381-A2.	
PN	
PD	01-AUG-2002.
XX	
PP	07-JAN-2002; 2002W0-US000473.
XX	
PR	06-JAN-2001; 2001US-0260080P.
XX	
PA	(GEHO) GEN HOSPITAL CORP.
XX	
PI	Slaugenhoupt, S., Guselia, J.F.;
XX	
DR	WPI; 2002-674806/72.
XX	
PT	New IKBKAP genes with mutations, useful for identifying a subject with
PT	familial dysautonomia (FD), or for rapid carrier screening in the
PT	Ashkenazi Jewish population, e.g. screening presymptomatic homozygotes or
PT	prenatal diagnosis.
XX	
CC	Claim 27, Page 43; 109pp; English.

The present invention relates to methods and compositions useful for detecting mutations which cause Familial Dysautonomia (FD), Riley-Day syndrome, Hereditary Sensory and Autonomic Neuropathy Type III (OMIM 223001). It was found that mutations in the IKBKAP gene (see ABQ80565) are associated with FD. The mutation associated with the major haplotype of FD, FDI mutation, is a base pair (bp) mutation, where the thymine

C	21	13.6	90.7	110000	10	ACF65383-1	Continuation (2 of
C	22	13.6	90.7	110000	10	ACFR7367-02	Continuation (3 of
C	23	13.6	90.7	110000	10	ACF67367-25	Continuation (26 of
C	24	13.6	90.7	110000	10	ACF55386-3	Continuation (4 of
C	25	13	86.7	330	13	ADSI4489	Asp14489 Pseudomon
C	26	13	86.7	369	8	ABX10965	Asp50965 Bovine ES
C	27	13	86.7	402	6	ABQ67491	Abd67491 Liberia
C	28	13	86.7	420	12	ADN74668	Adn74668 Thale cre
C	29	13	86.7	540	8	ACAO0442	AC20442 Prokaryot
C	30	13	86.7	546	6	ABK15286	Abk75286 Bacillus
C	31	13	86.7	564	10	ABX57020	Abx57020 Arabidops
C	32	13	86.7	639	12	ADP4170	Adp4170 Plant cdn
C	33	13	86.7	643	3	AAFL1156	Aaf1156 Fusarium
C	34	13	86.7	664	3	AAC5317	Aac45317 Arabidops
C	35	13	86.7	675	11	ABD04076	Abd04076 Pseudomon
C	36	13	86.7	708	3	AAC9221	Aac49221 Arabidops
C	37	13	86.7	710	3	AAC7069	Aac37069 Arabidops
C	38	13	86.7	710	13	ACAS7069	Acc52899 Prokaryot
C	39	13	86.7	771	8	ACAS52899	Acc52899 Prokaryot
C	40	13	86.7	777	5	AAH67085	Aah67085 C glutamici
C	41	13	86.7	900	4	AAFT1456	Aaf71456 Corynebac
C	42	13	86.7	951	10	ADZ23958	Adc23958 DNA sequ
C	43	13	86.7	951	12	ADH36059	Adh36059 Chemical
C	44	13	86.7	951	12	ADE93760	Adg93760 Nitrilase
C	45	13	86.7	951	12	ADI62357	Adi62357 DNA encod

ALIGNMENTS

Result No.	Score	Query Match Length	DB ID	Description
1	14.6	97.3	15	6 ABQ80562
2	14.6	97.3	803	4 AAK05318 Human cDNA
3	14.6	97.3	2471	4 AAK15795 Human cDNA
4	14.6	97.3	3999	2 AAX28025 Human tRNA
5	14.6	97.3	3999	4 AAF29756 Human tRNA
6	14.6	97.3	4417	13 ADP07102 Full leng
7	14.6	97.3	4788	4 AAK14333 Human cDNA
8	14.6	97.3	4803	5 AAKB1767 Human dif
9	14.6	97.3	4803	6 AAK4190 Human tRNA
10	14.6	97.3	5924	6 ABQ80570 Human tRNA
11	14.6	97.3	5924	6 ABQ80569 Human tRNA
12	14.6	97.3	5924	6 ACD13384 Human DNA
13	14.6	97.3	66479	6 ABQ80567 Human tRNA
14	14.6	97.3	66479	6 ABQ80566 Mutant hu
15	14.6	97.3	66479	6 ABQ80566 Mutant hu
16	14.6	97.3	66479	6 ABQ80565 Human tRNA
17	13.6	90.7	1329	10 ACF67648 Photorhab
18	13.6	90.7	1920	10 ACF69556 Photorhab
19	13.6	90.7	3770	4 ABL15715 Drosophil
20	13.6	90.7	10360	4 ABL15714 Drosophil

CC nucleotide located at bp 6 of intron 20 in the IKBAP gene is replaced
 CC with a cytosine. This results in skipping of exon 20 in the mRNA from FD
 CC patients, although they continue to express varying levels of wild-type
 CC message in a tissue-specific manner. The mutation associated with the
 minor haplotype, FD2 mutation, is a bp mutation, where the guanine
 CC nucleotide at bp 2397 (bp 73 of exon 19) is replaced with a cytosine.
 CC This bp mutation causes an arginine to proline missense mutation (R696P)
 CC in the IKBAP protein, which is predicted to disrupt a potential
 CC phosphorylation site. The IKBAP nucleic acid sequences are useful for
 CC identifying a subject with FD and for rapid carrier screening. The IKBAP
 CC gene maps to chromosome 9q1. Probes ABQ80561-ABQ80562 were used to
 CC detect the mutations in the IKBAP gene.

XX Sequence 15 BP; 2 A; 3 C; 4 G; 5 T; 0 U; 1 Other;

Query Match 97.3%; Score 14.6; DB 6; Length 15;
 Best Local Similarity 100.0%; Pred. No. 79; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTCACSGATGTC 15
 Db 1 GGTCACSGATGTC 15

CC polynucleotide which comprises a 3'-end sequence, where the
 CC oligonucleotide comprises at least 15 nucleotides and the combination of
 CC the 5'-end sequence, 3'-end sequence is selected from those defined in the
 CC specification. The primers can be used in antisense therapy and in
 CC gene therapy. The primers are useful for synthesising polynucleotides,
 CC particularly full-length cDNAs. The primers are also useful for the
 CC detection and/or diagnosis of the abnormality of the proteins encoded by
 CC the full-length cDNAs. The primers allow obtaining of the full-length
 CC cDNAs easily without any specialised methods. AAH0166 to AAH13628 and
 CC AAH1363 to AAH18742 represent human cDNA sequences; AAB92446 to AAB9893
 CC represent human amino acid sequences; and AAH13629 to AAH13632 represent
 CC oligonucleotides all of which are used in the exemplification of the
 present invention.

XX Sequence 803 BP; 251 A; 154 C; 172 G; 222 T; 0 U; 4 Other;

Query Match 97.3%; Score 14.6; DB 4; Length 803;
 Best Local Similarity 93.3%; Pred. No. 1.1e+02; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGTCACSGATGTC 15
 Db 72 GGTCACCGATGTC 86

RESULT 2

AAH05318
 ID AAH05318 Standard; cDNA; 803 BP.

XX AC AAH05318;

XX DT 26-JUN-2001 (first entry)

DE Human cDNA clone (5'-primer) SEQ ID NO:2153.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; BB.

OS Homo sapiens.

XX PN EP1074617-A2.

XX PD 07-FEB-2001.

XX PP 28-JUL-2000; 2000EP-00116126.

PR 29-JUL-1999; 99JP-00248036.

PR 27-AUG-1999; 99JP-00300253.

PR 11-JAN-2000; 2000JP-00118776.

PR 02-MAY-2000; 2000JP-00183757.

PR 09-JUN-2000; 2000JP-00241899.

XX PA (HELI-) HELIX RES INST.

XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

XX DR Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

XX PS Claim 1; SEQ ID NO 2153; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification, where a primer set comprises:

CC (a) an oligo-dT primer and an oligonucleotide complementary to the nucleotide sequences defined in the specification, where the two oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a

RESULT 3

AAH15795
 ID AAH15795 Standard; cDNA; 2471 BP.

XX AC AAH15795;

XX DT 26-JUN-2001 (first entry)

DE Human cDNA sequence SEQ ID NO:14253.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; BB.

OS Homo sapiens.

XX PN EP1074617-A2.

XX PD 07-FEB-2001.

XX PP 28-JUL-2000; 2000EP-00116126.

PR 29-JUL-1999; 99JP-00248036.

PR 27-AUG-1999; 99JP-00300253.

PR 11-JAN-2000; 2000JP-00118776.

PR 02-MAY-2000; 2000JP-00183757.

PR 09-JUN-2000; 2000JP-00241899.

XX PA (HELI-) HELIX RES INST.

XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

XX DR Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;

XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

XX PS Claim 8; SEQ ID NO 14253; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesizing 5602 full-length cDNAs defined in the specification, where a primer set comprises:

CC (a) an oligo-dT primer and an oligonucleotide complementary to the nucleotide sequences defined in the specification, where the two oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a

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Gendore version 5.1.6
OM nucleic - nucleic search, using SW model
Run on: July 31, 2005, 16:38:33 ; Search time 153.148 Seconds

Title: 633. 931 Million cell updates/sec
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Sequence: 199ttcacsgatgtc 15
Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0

Searched: 7237783 seqs, 3236178273 residues
Total number of hits satisfying chosen parameters: 14575566

Best score: 0.00000000
Minimum Match: 0%

Database : Maximum Match 100%
Listing first 45 summaries
Published Applications NA:*

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3: cgn2_6_ptodata[1].pubpna / US06_PUB_SEQ,*  

4: cgn2_6_ptodata[1].pubpna / US06_PUBCOMS_SEQ,*  


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7: /cgn2_6_ptocata/1/pubnra_USB_PUBCON.B. seq. *
8: /cgn2_6_ptocata/1/pubnra_USB_PUBCON.B. seq. *
9: /cgn2_6_ptocata/1/pubnra_USB_PUBCON.B. seq. *
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10: /cgns--procdata/1/pubpma/USOC_PUBCOMB.seq
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15: /cgns_6/pcodata/1/pubpma/US1C_PUBCOMB.seq:
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17: /cgns_6/pcodata/1/pubpma/US1E_PUBCOMB.seq:
18:

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24:    /cgn2_6_pcdatas/1/pubpna/US60_NEW_PUB.seq
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No. is the number of results predicted by chance to score greater than or equal to the score of the result being and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	14.6	97.3	15	13	US-10-141-856-86	Sequence 86, App
2	14.6	97.3	201	20	US-10-719-933-4499	Sequence 4499, App
3	14.6	97.3	201	20	US-10-719-933-4527	Sequence 4527, App
4	14.6	97.3	201	20	US-10-719-993-4556	Sequence 4556, App
5	14.6	97.3	201	20	US-10-719-993-4585	Sequence 4585, App
6	14.6	97.3	201	20	US-10-719-993-4613	Sequence 4613, App
7	14.6	97.3	201	20	US-10-719-993-34995	Sequence 34995, App

Prev. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

ALIGNMENTS

8	14.6	97.3	4256	Sequence 319, App
9	14.6	97.3	4803	Sequence 276, App
10	14.6	97.3	4803	Sequence 1084, App
11	14.6	97.3	5840	Sequence 322, App
12	14.6	97.3	5924	Sequence 2, App
13	14.6	97.3	5957	Sequence 320, App
14	14.6	97.3	6107	Sequence 321, App
15	14.6	97.3	6179	Sequence 318, App
16	14.6	97.3	6679	Sequence 1, App
17	14.6	97.3	78878	Sequence 6863, App
18	13.4	89.3	825	Sequence 62520,
19	13.4	89.3	2365	Sequence 141749,
20	13	86.7	25	Sequence 2420, App
21	13	86.7	25	Sequence 71833,
22	13	86.7	25	Sequence 459049,
23	13	86.7	25	Sequence 534331,
24	13	86.7	253	Sequence 67850, A
25	13	86.7	330	Sequence 44, App
26	13	86.7	369	Sequence 894, App
27	13	86.7	386	Sequence 102611,
28	13	86.7	402	Sequence 304, App
29	13	86.7	408	Sequence 44467, A
30	13	86.7	408	Sequence 44467, A
31	13	86.7	408	Sequence 66788, A
32	13	86.7	409	Sequence 67332, A
33	13	86.7	409	Sequence 311246,
34	13	86.7	409	Sequence 311247,
35	13	86.7	409	Sequence 66788, A
36	13	86.7	409	Sequence 67332, A
37	13	86.7	409	Sequence 311246,
38	13	86.7	409	Sequence 311247,
39	13	86.7	414	Sequence 122345,
40	13	86.7	524	Sequence 178209,
41	13	86.7	524	Sequence 35913, A
42	13	86.7	540	Sequence 8312, App
43	13	86.7	546	Sequence 2577, App
44	13	86.7	564	Sequence 372, App
45	13	US-09-770-152-372	9	Sequence 245629,
46	US-10-027-632-311247	13	US-10-027-632-311247	US-10-027-632-311247

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; Db 94 GGTTCACAGATTGTC 108
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; RESULT 3 ;
; US-10-719-993-4527 ;
; Sequence 4527, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
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; Db 94 GGTTCACSGATGTC 108
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; RESULT 4 ;
; US-10-719-993-4556 ;
; Sequence 4556, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4556
; ;
; RESULT 5 ;
; US-10-719-993-4585 ;
; Sequence 4585, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
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; RESULT 6 ;
; US-10-719-993-4613 ;
; Sequence 4613, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
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; LENGTH: 201
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; Db 94 GGTTCACSGATGTC 108
; ;
; RESULT 7 ;
; US-10-719-993-34995 ;
; Sequence 34995, Application US/10719993
; ;

Run on: July 31, 2005, 15:46:58 ; Search time 734.537 Seconds
 (without alignment time)
 777.311 Million cell updates/sec

OM nucleic - nucleic search, using sw model

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Total number of hits satisfying chosen parameters:	68479088	
Minimum DB seq length:	0	
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Post-processing:	Minimum Match 0% Listing first 45 summaries	
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	3: gb_hrc:*	
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	7: gb_est6:*	
	8: gb_gsb1:*	
	9: gb_gsb2:*	
Pred.	No.	is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
SUMMARIES		
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1	14.6	97.3 417 7 CN256146 LOCUS CN256146 417 bp mRNA DEFINITION CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM
C	14.6	97.3 513 1 ALJ02133 LOCUS CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM
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C	14.6	97.3 866 5 BU508979 LOCUS CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM
C	14.6	97.3 874 5 BU560794 LOCUS CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM
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C	14.6	97.3 1134 7 CN641371 LOCUS CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM
C	14.6	97.3 3893 3 CR4949385 LOCUS CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM
C	14.6	97.3 3999 9 AY414502 LOCUS CN256146.1 GRN_ES Homo sapiens ACCESSION CN256146.1 GI:47272560 VERSION EST KEYWORDS SOURCE Organism: Homo sapiens ORGANISM

ALIGNMENTS

ORIGIN	Query Match Score	Best Local Similarity	Best Matches	Local Similarity	Score	Length	DB	Matches	Conservative	Mismatches	Indels	Gaps
QY	1 GGTTCACCGATGTC	97.3%	93.3%	97.3%	14.6	417	7	1	1	0	0	0
Db	184 GGTTCACCGATGTC	15	15	15	198	198	198	184	184	0	0	0

RESULT 2		ORGANISM	Homo sapiens
BF840993/c	BF840993	REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
LOCUS	RC3-HT0974-011200-013-a03	AUTHORS	1 (bases 1 to 513)
DEFINITION	HT0974	TITLE	Bloecher,H., Boecker,M., Brandt,P., Mewes,W.W., Weil,B. and Wiemann,S.
ACCESSION	BF840993	JOURNAL	EST (Bloecher,H., Boecker,M., Brandt,P., Mewes,W.W., Weil,B. and Wiemann,S.)
VERSION	BF840993.1	COMMENT	Unpublished (1999)
KEYWORDS	EST.	CONTACT	Contact: MIPS
SOURCE	Homo sapiens (human)	FEATURES	MIPS
ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	ORIGIN	
TITLE	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags	Query Match	This is the 5' sequence of the clone insert
AUTHORS	1 (bases 1 to 447)	Best Local Similarity	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email: s.wiemann@dkfz-heidelberg.de;
JOURNAL	Dias Neto,R., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordim,S., Costa,F.F., Goldman,G.H., Carvalho,A.P.S., Matsuoka,A., Biala,G.S., Simpson,D.H., Brunstein,A., de Oliveira,S.P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.	Matches	sequenced by GBR (National Research Centre for Biotechnology Ltd, Braunschweig/Germany) within the cDNA Sequencing Consortium of the German Genome Project.
MEDLINE	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)	Location/Qualifiers	No 61 sequence available.
PUBMED	10737800	Db	This clone (DKRZp68G02155) is available at the RZPD in Berlin. Please contact the RZPD: Resourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
COMMENT	Contact: Simpson A.J G.	Qy	1 . .513
TITLE	Laboratory of Cancer Genetics	Source	/organism="Homo sapiens"
JOURNAL	Ludwig Institute for Cancer Research	Dbxref	/mol_type="mRNA"
PROV	Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil	Dbxref	/taxon:9606"
TELE	Tei: +55-11-2707001	Dbxref	/clone="DKRZp68G02155"
FAX	Fax: +55-11-2707001	Dbxref	/dev_Status="adult"
EMAIL	Email: asimpson@ludwig.org.br	Dbxref	/lab_host=DH10B"
FEATURES	This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?tl=RC3&t2=RC3-HT0974-011200-013-a03&t3=2000-12-01&t4=)	Dbxref	/clone_lip="686 (synonym: hlc3)"
source	Seq primer: puc 18 forward	Dbxref	/note="Vector: pTRipleEx2; Site_1: sfIIA; Site_2: sfIIB; CDNA-collection"
FEATURES	High quality sequence start: 29	Dbxref	
source	High quality sequence stop: 447.	Dbxref	
FEATURES	location/Qualifiers	Dbxref	
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Db	Mismatches 0;	Dbxref	
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GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: July 31, 2005, 14:44:02 ; Search time 546.895 Seconds
(without alignments)
1683.411 Million cell updates/sec

Title:	US-10-041-856-82
Scoring sequence:	19 gcccagtgttttgcttag 19
Scoring table:	IDENTITY_NUC
Gappo 10.0 , Gapext 1.0	
Searched:	4708333 seqs, 24227607955 residues
Total number of hits satisfying chosen parameters:	9416466
Minimum DB seq length:	0
Maximum DB seq length:	200000000
Post-processing:	Minimum Match 0%
	Maximum Match 100%
	Listing first 45 summaries

Database : Genmbl:
1: gb_ba:
2: gb_htgi:
3: gb_in:
4: gb_om:
5: gb_ov:
6: gb_pat:
7: gb_ph:
8: gb_pl:
9: gb_pr:
10: gb_ro:
11: gb_ssb:
12: gb_sv:
13: gb_un:
14: gb_vl:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	19	100.0	3516	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
3	19	100.0	3999	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
4	19	100.0	3999	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
5	19	100.0	4417	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
6	19	100.0	4417	9 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
7	19	100.0	4788	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
8	19	100.0	4788	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
9	19	100.0	4788	9 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
10	19	100.0	4803	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
11	19	100.0	4803	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
12	19	100.0	4803	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
13	19	100.0	4803	9 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
14	19	100.0	5047	9 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
15	19	100.0	5924	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
16	19	100.0	5924	9 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
17	19	100.0	66479	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
18	19	100.0	7876	9 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence
19	19	94.7	392	6 AX676129 Sequence CQ724004 Sequence AR07165 Sequence AR124807 Sequence CQ850139 Sequence AK127237 Homo sapi BD156525 Primer fo AX871777 Sequence AK001641 Homo sapi BD171366 Method fo BD173600 Method of AX210634 Sequence AF044195 Homo sapi BC033094 Homo sapi BC053094 Homo sapi AX676049 Sequence AF153419 Homo sapi AX676048 Sequence AL359692 Human DNA AX210429 Sequence

ALIGNMENTS

ORIGIN	Query Match	Score	Length	DB ID	Description
RESULT 2	Best local Similarity	100.0%	Score 19;	DB 6;	Length 19;
Qy	Sequence	19;	Conservative	0;	Mismatches 0;
Db	1	1	GGCCAGCTTGTGCTGAG 19	1	GCACAGTTGTGCTGAG 19

DEFINITION	DEFINITION	DEFINITION	DEFINITION	DEFINITION	DEFINITION
CQ724004	CQ724004	CQ724004	CQ724004	CQ724004	CQ724004
LOCUS	Sequence	Sequence	Sequence	Sequence	Sequence
VERSION	82	82	82	82	82
ACCESION	AX676129	AX676129	AX676129	AX676129	AX676129
VERSION	AX676129.1	GI:2933813	AX676129.1	AX676129.1	AX676129.1
KEYWORDS	.	synthetic construct	.	synthetic construct	.
SOURCE	gb	gb	gb	gb	gb
ORGANISM	synthetic construct				
REFERENCE	Other sequences; artificial sequences.				
AUTHORS	1 Slaugenhoupt, S. and Gussella, J.F.				
TITLE	Gene for identifying individuals with familial dysautonomia				
JOURNAL	Patent: WO 02053381-A 82 01-AUG-2002; The General Hospital Corporation (US)	Patent: WO 02053381-A 82 01-AUG-2002; The General Hospital Corporation (US)	Patent: WO 02053381-A 82 01-AUG-2002; The General Hospital Corporation (US)	Patent: WO 02053381-A 82 01-AUG-2002; The General Hospital Corporation (US)	Patent: WO 02053381-A 82 01-AUG-2002; The General Hospital Corporation (US)
FEATURES	source	source	source	source	source
	1. - 19	1. - 19	1. - 19	1. - 19	1. - 19
	/organism="synthetic construct"				
	/db_xref="taxon:32630"	/db_xref="taxon:32630"	/db_xref="taxon:32630"	/db_xref="taxon:32630"	/db_xref="taxon:32630"
	/note="Primer"	/note="Primer"	/note="Primer"	/note="Primer"	/note="Primer"

REFERENCE	Mammalia; Butcheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	Venter,C.J., Adams,M.C., Li,P.W. and Myers,E.W.
TITLE	Kits, such as nucleic acid arrays, comprising a majority of humanoxins or transcripts, for detecting expression and other uses thereof
JOURNAL	Patent: WO 02065579-A 9938 06-SEP-2002;
FEATURES	PE Corporation (NY) (US)
source	location/Qualifiers 1. .3516
ORIGIN	/organism="Homo sapiens" /mol_type="unassigned DNA" /db_xref="taxon:9606"
RESULT 5	Query Match 100.0%; Score 19; DB 6; Length 3999; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
Db	1763 GCCAGTGTGTTGCTGAG 1781
RESULT 3	Query Match 100.0%; Score 19; DB 6; Length 3516; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
LOCUS	AR070165 AR070165
DEFINITION	Sequence 1 from patent US 5891719.
AUTHORS	Cohen,L. and Bauerle,P.
TITLE	IKAP nucleic acids
JOURNAL	Patent: US 5891719-A 1 06-APR-1999;
FEATURES	location/Qualifiers 1. .3999 /organism="unknown" /mol_type="unassigned DNA"
SOURCE	Unknown.
ORGANISM	Unknown. Unclassified.
REFERENCE	1 (bases 1 to 3999)
AUTHORS	Cohen,L. and Bauerle,P.
TITLE	IKAP nucleic acids
JOURNAL	Patent: US 5891719-A 1 06-APR-1999;
FEATURES	location/Qualifiers 1. .3999 /organism="unknown" /mol_type="unassigned DNA"
SOURCE	Unknown.
ORIGIN	Unknown.
RESULT 5	Query Match 100.0%; Score 19; DB 6; Length 3999; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
Db	1763 GCCAGTGTGTTGCTGAG 1781
RESULT 3	Query Match 100.0%; Score 19; DB 6; Length 3516; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
LOCUS	AR070165 AR070165
DEFINITION	Sequence 1 from patent US 5891719.
AUTHORS	Cohen,L. and Bauerle,P.
TITLE	IKAP nucleic acids
JOURNAL	Patent: US 5891719-A 1 06-APR-1999;
FEATURES	location/Qualifiers 1. .3999 /organism="unknown" /mol_type="unassigned DNA"
SOURCE	Unknown.
ORIGIN	Unknown.
RESULT 5	Query Match 100.0%; Score 19; DB 6; Length 3999; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
Db	1763 GCCAGTGTGTTGCTGAG 1781
RESULT 3	Query Match 100.0%; Score 19; DB 6; Length 3516; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
LOCUS	AR070165 AR070165
DEFINITION	Sequence 1 from patent US 5891719.
AUTHORS	Cohen,L. and Bauerle,P.
TITLE	IKAP nucleic acids
JOURNAL	Patent: US 5891719-A 1 06-APR-1999;
FEATURES	location/Qualifiers 1. .3999 /organism="unknown" /mol_type="unassigned DNA"
SOURCE	Unknown.
ORIGIN	Unknown.
RESULT 6	Query Match 100.0%; Score 19; DB 6; Length 4417; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
Db	1918 GCCAGTGTGTTGCTGAG 1936
RESULT 6	Query Match 100.0%; Score 19; DB 6; Length 4417; Best Local Similarity 100.0%; Pred. No. 29; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	1 GCGAGTGTGTTGCTGAG 19
LOCUS	AK127237 AK127237
DEFINITION	Homo Sapiens cDNA FLJ45304 fib, clone BRHP1003984, highly similar to Iknappab kinase complex-associated protein.
ACCESSION	AK127237
VERSION	AK127237.1
KEYWORDS	AK127237.1 GI:34534066 oligo capping; fis (full insert sequence).
SOURCE	Homo sapiens (human)
ORGANISM	Homo sapiens Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butcheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1
AUTHORS	Oshima,A., Takahashi-Fujii,A., Tanase,T., Inoue,N., Takeuchi,K., Arito,M., Musashino,K., Yuki,H., Hara,H., Sugiyama,T., Irie,R., Otsuki,T., Sato,H., Wakamatsu,A., Ishii,S., Yamamoto,J., Isono,Y., Kawai-Hio,Y., Saito,K., Nishikawa,T., Kimura,K., Yamashita,H., Matsuo,K., Nakamura,Y., Sekine,M., Kikuchi,H., Kanda,K., Waga,Buma,M., Murakawa,K., Kaneko,K., Sugiyama,A., Kawakami,B., Suzuki,Y., Sugano,S., Nagahashi,K., Masuho,Y., Nagai,K. and Isogai,T.
JOURNAL	NEDO human cDNA sequencing project
REFERENCE	Unpublished
AUTHORS	2 (bases 1 to 4417)
JOURNAL	Isozaki,T. and Yamamoto,J.
TITLE	Direct Submission
REFERENCE	Submitted (15-JUL-2003) Takao Isozaki, FLJ Project (HRI Team); 2-6-7
AUTHORS	Kazuusa-Kamatari, Kisarazu, Chiba 292-0018, Japan (E-mail:genomics@hri.co.jp, Tel:81-438-52-975, Fax:81-438-52-3986)
COMMENT	NEDO human cDNA sequencing project supported by Ministry of Economy, Trade and Industry of Japan; cDNA full insert sequencing:

SQ Sequence 3999 BP; 1110 A; 851 C; 995 G; 1043 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 2; Length 3999;

Best Local Similarity 100.0%; Pred. No. 25; Mismatches 0; Indels 0; Gaps 0;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGCCTGAG 19
1 GCGAGTGTGTTGCCTGAG 19

Db 1979 GCGAGTGTGTTGCCTGAG 1997

RESULT 3
AAR29756
ID AAR29756 Standard; cDNA; 3999 BP.

XX AAR29756;
AC AAR29756;
XX 05-APR-2001 (first entry)

DE Human IKAP coding sequence.

KW Human; IKAP; signal transduction; NIK binding activity; transcription factor; diagnosis; therapy; ss.

XX Homo sapiens.

OS Homo sapiens.
XX US6172195-B1.
PN 09-JUN-1999 (first entry)
XX DR 09-JAN-2001.
XX PF 06-APR-1999; 99US-00286891.
XX PR 16-NOV-1997; 97US-00971244.
XX PA (TULA-) TULARIK INC.
XX PI Cohen L, Bauerle P;
XX DR WPI; 2001-158378/16.
XX P-PSDB; AAB66345.

PT Novel human kinase IKAP polypeptide useful in diagnosis, therapy, pharmaceutical industry and for screening for modulators of the PT polypeptide.

XX Disclosure; Col 9-18; 15pp; English.

CC The present invention provides the human IKAP protein. This is involved CC in signal transduction pathways, where it binds to NIK and results in the CC activation of transcription factors. The protein and its coding sequence CC can be used in disease diagnosis and therapy, as well as in the CC biopharmaceutical industry

SQ Sequence 3999 BP; 1110 A; 851 C; 995 G; 1043 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 4; Length 3999;

Best Local Similarity 100.0%; Pred. No. 25; Mismatches 0; Indels 0; Gaps 0;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGCCTGAG 19
1 GCGAGTGTGTTGCCTGAG 1997

Db 1979 GCGAGTGTGTTGCCTGAG 1997

RESULT 4
ADR07102
ID ADR07102 Standard; cDNA; 4417 BP.

XX ADR07102;
AC ADR07102;
XX 04-NOV-2004 (first entry)

DE Full length human cDNA useful for treating neurological disease Seq 608.

CC nucleotide located at bp 6 of intron 20 in the IKBAP gene is replaced with a cytosine. This results in skipping of exon 20 in the mRNA from FD patients, although they continue to express varying levels of wild-type message in a tissue-specific manner. The mutation associated with the minor haplotype, FD2 mutation, is a bp mutation, where the guanine, CC This bp mutation causes an arginine to proline missense mutation (R695P) in the IKBAP protein, which is predicted to disrupt a potential phosphorylation site. The IKBAP nucleic acid sequences are useful for identifying a subject with FD and for rapid carrier screening. The IKBAP gene maps to chromosome 9q31. PCR primers ABQ80558-ABQ80560 were used to detect the splicing defect in IKBAP gene

CC XX Sequence 19 BP; 2 A; 4 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 19;

Best Local Similarity 100.0%; Pred. No. 14; Mismatches 0; Indels 0; Gaps 0;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGCCTGAG 19
1 GCGAGTGTGTTGCCTGAG 19

Db 1979 GCGAGTGTGTTGCCTGAG 1997

RESULT 2
AAX28025
ID AAX28025 Standard; cDNA; 3999 BP.

XX AAX28025;
AC AAX28025;
XX DT 09-JUN-1999 (first entry)

DE Human IKAP coding sequence.

KW Human; IKAP; signal transduction; NIK binding activity; transcription factor; diagnosis; therapy; ss.

XX Homo sapiens.

OS Homo sapiens.
XX US5891719-A.
PN 06-APR-1999.
XX DR 06-APR-1999; 99US-00286891.
XX PR 16-NOV-1997; 97US-00971244.
XX PA (TULA-) TULARIK INC.
XX PI Cohen L, Bauerle P;
XX DR WPI; 1999-253865/21.
XX DR P-PSDB; AAY01084.

PT Isolated, recombinant cDNA sequences encoding human IKAP polypeptides - PT useful for regulating cellular signal transduction and transcriptional PT activation.

XX PS Claim 23; Col 9-18; 15pp; English.

XX This sequence encodes the human IKAP protein of the invention. IKAP CC regulates cellular signal transduction and transcriptional activation CC (e.g., the activation of nuclear factor kappaB). Nucleic acids encoding CC IKAP have a range of applications including use as translatable CC transcripts, hybridisation probes, polymerase chain reaction (PCR) CC primers, diagnostic nucleic acids, use in detecting the presence of IKAP genes and gene transcripts and in detecting or amplifying nucleic acids CC encoding additional IKAP homologues and structural analogues. In CC diagnosis IKAP hybridisation probes may be used to identify wild-type and CC mutant IKAP alleles in clinical samples. In therapy, IKAP nucleic acids CC can be used to modulate cellular expression or intracellular concentration or availability of active IKAP

GenCore version 5.1.6
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OM nucleic - nucleic search, using bw model

Run on: July 31, 2005, 14:57:07 ; Search time 39.2901 seconds
 (without alignment) ; 791.274 Million cell updates/sec

Title: US-10-041-856-82
 Perfect score: 19
 Sequence: gccagtgttttgcttag 19

Scoring table: IDENTITY_NUC
 Gapop 10_0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database : Issued Patents No.:

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- 3: /cgpn2_6/pctodata/1/ina/6A_COMB.seq:*
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- 5: /cgpn2_6/pctodata/1/ina/pctus_COMB.seq:*
- 6: /cgpn2_6/pctodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
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2	19	100.0	3999	3	US-09-286-891-1	Sequence 1, Appli
3	15.8	83.2	601	4	US-09-949-016-68848	Sequence 68848, A
4	15.8	83.2	601	4	US-09-949-016-68849	Sequence 68849, A
5	15.8	83.2	1011	3	US-09-185-584A-28	Sequence 185, A
6	15.8	83.2	1011	3	US-09-185-584A-29	Sequence 185, A
7	15.8	83.2	1011	4	US-09-784-423-28	Sequence 784, A
8	15.8	83.2	1011	4	US-09-784-423-29	Sequence 784, A
9	15.8	83.2	4463	2	US-08-760-489-1	Sequence 1, Appli
10	15.8	83.2	4463	2	US-08-760-489-3	Sequence 1, Appli
11	15.8	83.2	4463	3	US-09-185-373-1	Sequence 1, Appli
12	15.8	83.2	4463	3	US-09-185-373-3	Sequence 1, Appli
13	15.8	83.2	128470	4	US-09-949-016-1765	Sequence 128470, A
14	15.4	81.1	601	4	US-09-949-016-29141	Sequence 1, Appli
15	15.4	81.1	601	4	US-09-949-016-41096	Sequence 1, Appli
16	15.4	81.1	858	3	US-09-334-338-12	Sequence 3, Appli
17	15.4	81.1	909	4	US-09-252-991A-7481	Sequence 1, Appli
18	15.4	81.1	1149	4	US-09-252-991A-7156	Sequence 1, Appli
19	15.4	81.1	1335	4	US-09-252-991A-7421	Sequence 1335, A
20	15.4	81.1	2667	4	US-09-252-991A-7216	Sequence 2667, A
21	15.4	81.1	16073	4	US-09-949-016-12312	Sequence 16073, A
22	15.4	81.1	16073	4	US-09-949-016-12905	Sequence 16073, A
23	15.4	81.1	45862	4	US-09-949-016-13928	Sequence 13928, A
24	15.4	81.1	102008	4	US-09-949-016-16617	Sequence 16617, A
25	15	78.9	396	4	US-09-513-999C-13741	Sequence 13741, A
26	15	78.9	4	US-09-949-016-1607	Sequence 1607, A	
27	15	78.9	855	4	US-09-949-016-1608	Sequence 1608, A

RESULT 1
 US-08-971-244-1
 Sequence 1, Application US/08971244
 Patent No. 5891719

GENERAL INFORMATION:

APPLICANT: Cohen, Lucy
 ATTORNEY/AGENT INFORMATION:
 NAME: OSMAN, RICHARD A
 REGISTRATION NUMBER: 36,627
 REFERENCE/DOCKET NUMBER: T97-011
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (650) 343-4341
 TELEFAX: (650) 343-4342
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3999 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..3996

US-08-971-244-1

Query Match 100.0%; Score 19; DB 2; Length 3999;
 Best Local Similarity 100.0%; Prod. No. 6,7; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGGCTGAG 19

|||||

Db 1979 GCCAGTGTTCGGCTGAG 1997

RESULT 2

US-09-286-891-1

Patent No. 6,172,195

GENERAL INFORMATION:

APPLICANT: Cohen, Lucy

APPLICANT: Baeuxle, Patrick

TITLE OF INVENTION: IgAP Proteins, Nucleic Acids and Methods

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

STREET: 75 DENISE DRIVE

CITY: HILLSBURGH

STATE: CALIFORNIA

ZIP: 94101

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Fast-SEQ for Windows Version 4.0

SEQ ID NO 68848

LENGTH: 601

TYPE: DNA

ORGANISM: Human

US-09-949-016-68848

Query Match Best Local Similarity 89.5%; Score 15.8; DB 4; Length 601; Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 240 GCCAGTGTTCGGCTGAG 258

RESULT 4

US-09-949-016-68849

Sequence 68849, Application US/09949016

Patent No. 681339

GENERAL INFORMATION:

APPLICANT: Venter, J. Craig et al.

TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949.016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: Fast-SEQ for Windows Version 4.0

SEQ ID NO 68849

LENGTH: 601

TYPE: DNA

ORGANISM: Human

US-09-949-016-68849

Query Match Best Local Similarity 89.5%; Score 15.8; DB 4; Length 601; Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 GCCAGTGTTCGGCTGAG 19

Db 91 GCCAGTGTTCGGCTGAG 109

RESULT 5

US-09-018-514A-2B/C

Sequence 2B, Application US/09018594A

Patent No. 6238863

GENERAL INFORMATION:

APPLICANT: Schumm, James W.

APPLICANT: Bachar, Jeffery W.

TITLE OF INVENTION: MATERIALS AND METHODS FOR IDENTIFYING AND ANALYZING INTERMEDIATE TANDEM REPEAT DNA MARKERS

NUMBER OF SEQUENCES: 147

CORRESPONDENCE ADDRESS:

ADDRESSEE: Promega Corporation

STREET: 2800 Woods Hollow Road

CITY: Madison

STATE: Wisconsin

Country: U.S.A.

ZIP: 53711-5339

COMPUTER READABLE FORM:

ON nucleic - nucleic search, using sw model
 Run on: July 31, 2005, 16:38:33 ; Search time 193.988 Seconds
 (without alignments)
 633.931 Million cell updates/sec

Title: US-10-041-856-82
 Perfect score: 19
 Sequence: 1 gccaggttttgccctgag 19
 Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext: 1.0
 Searched: 7287783 seqs, 323617873 residues
 Total number of hits satisfying chosen parameters: 14575566
 Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
 Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	19	100.0	19	13 US-10-041-856-82
2	19	100.0	201	20 US-10-719-993-4501
3	19	100.0	201	20 US-10-719-993-4507
4	19	100.0	201	20 US-10-719-993-4528
5	19	100.0	201	20 US-10-719-993-4534
6	19	100.0	201	20 US-10-719-993-4557
7	19	100.0	201	20 US-10-719-993-4563

ALIGNMENTS

RESULT 1
 US-10-041-856-82
 Sequence 82, Application US/10041856
 Publication No. US20020169299A1
 GENERAL INFORMATION:
 APPLICANT: SLAUGENHAUPT, SUSAN
 APPLICANT: GUSELLI, JAMES F.
 TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL
 TITLE OF INVENTION: DISAUTONOMIA
 FILE REFERENCE: 1829-4004US1
 CURRENT APPLICATION NUMBER: US/10/041, 856
 CURRENT ILLING DATE: 2002-07-08
 PRIOR APPLICATION NUMBER: 60/260, 080
 NUMBER OF SEQ ID NOS: 88
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO: 82
 LENGTH: 19
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Primer
 US-10-041-856-82
 Query Match 100.0%; Score 19; DB 13; Length 19;
 Best Local Similarity 100.0%; Pred. No. 9.5;
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGGTGTTTGCCCTGAG 19
 Sequence 4557, Ap
 Sequence 4592, Ap
 Sequence 4614, Ap
 Sequence 4620, Ap
 Sequence 3840, A
 Sequence 3842, A
 Sequence 3877, A
 Sequence 3940, A
 Sequence 3940, App
 Sequence 319, App
 Sequence 276, App
 Sequence 194, App
 Sequence 322, App
 Sequence 2, Appl
 Sequence 320, App
 Sequence 321, App
 Sequence 318, App
 Sequence 1, Appl
 Sequence 6163, App
 Sequence 71, Appl
 Sequence 4690, A
 Sequence 4690, App
 Sequence 4189, Ap
 Sequence 1, Appl
 Sequence 3, Appl
 Sequence 174961,
 Sequence 174961,
 Sequence 22, Appl
 Sequence 40998, A
 Sequence 40998, A
 Sequence 3334, Ap
 Sequence 12832, A
 Sequence 5294, A
 Sequence 5294, A
 Sequence 5624, A
 Sequence 5624, A
 Sequence 43356, A
 Sequence 46356, A

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Db          1 GCCAGTGTGTTGCCTGAG 19
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4528

RESULT 2
US-10-719-993-4501
; Sequence 4501, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4501
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4501

Query Match      100.0%; Score 19; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          1 GCCAGTGTGTTGCCTGAG 19
Db          154 GCCAGTGTGTTGCCTGAG 172

RESULT 3
US-10-719-993-4507
; Sequence 4507, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4507
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4507

Query Match      100.0%; Score 19; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          1 GCCAGTGTGTTGCCTGAG 19
Db          154 GCCAGTGTGTTGCCTGAG 172

RESULT 4
US-10-719-993-4528
; Sequence 4528, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4528
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4528

Query Match      100.0%; Score 19; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          1 GCCAGTGTGTTGCCTGAG 19
Db          154 GCCAGTGTGTTGCCTGAG 172

RESULT 5
US-10-719-993-4534
; Sequence 4534, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4534
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4534

Query Match      100.0%; Score 19; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          1 GCCAGTGTGTTGCCTGAG 19
Db          154 GCCAGTGTGTTGCCTGAG 172

RESULT 6
US-10-719-993-4557
; Sequence 4557, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4557
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4557

Query Match      100.0%; Score 19; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 12; Mismatches 0; Indels 0; Gaps 0;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          1 GCCAGTGTGTTGCCTGAG 19
Db          154 GCCAGTGTGTTGCCTGAG 172

RESULT 7
US-10-719-993-4563
; Sequence 4563, Application US/10719993

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GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model
 Run on: July 31, 2005, 15:46:58 ; Search time 930.414 Seconds
 (Without alignments)

777.311 Million cell updates/sec
 Title: US-10-041-856-82
 Perfect score: 19
 Sequence: 1 gccaggtttttgccttag 19

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext: 1.0

Searched: 3423954 seqs, 19032134700 residues
 Total number of hits satisfying chosen parameters: 68479088

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries
Database :
 EST:
 1: gb_east1:
 2: gb_east2:
 3: gb_hic:
 4: gb_east3:
 5: gb_east4:
 6: gb_east5:
 7: gb_east6:
 8: gb_gbs1:
 9: gb_gbs2:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
c 1	19	100.0	412 2	BF742852 IL2-BT073
c 2	19	100.0	417 7	CN256146 17005321
c 3	19	100.0	447 2	BF840993 RC3-KM097
c 4	19	100.0	513 1	AL702133 DKFP0886G
c 5	19	100.0	553 4	BNM12007 iJ77d11.x
c 6	19	100.0	580 5	BP243833 BP243833
c 7	19	100.0	618 4	BG395601 602456222
c 8	19	100.0	709 7	CN256149 170054241
c 9	19	100.0	874 5	BU156074 AGENCOURT
c 10	19	100.0	911 2	BB256729 60115546
c 11	19	100.0	931 4	BQ288503 602382995
c 12	19	100.0	1134 7	CN641971 ILLUMIGEN
c 13	19	100.0	3833 3	CR74385 Homo sapi
c 14	19	100.0	3874 5	AY414501 Homo sapi
c 15	19	100.0	3999 9	AY414502 Pan trogl
c 16	18	94.7	392 1	AR324126 EST27019
c 17	18	94.7	595 9	CL342681 RPCI44_26
c 18	17.4	91.6	472 7	CP601263 GEMMA01_0
c 19	17.4	91.6	607 5	BP717388 BP717388
c 20	17.4	91.6	647 7	CK883446 SQP167202
c 21	17.4	91.6	672 6	CB511829 ssalgb54
c 22	17.4	91.6	713 7	CK831783 4057942 B
c 23	17.4	91.6	852 6	CH198332 AGENCOURT
c 24	17.4	91.6	856 6	CD325659 AGENCOURT

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%

Listing first 45 summaries
Database :
 EST:
 1: gb_east1:
 2: gb_east2:
 3: gb_hic:
 4: gb_east3:
 5: gb_east4:
 6: gb_east5:
 7: gb_east6:
 8: gb_gbs1:
 9: gb_gbs2:
 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ALIGNMENTS

c 25	17.4	91.6	911 9	CL263184 ZMMBb062
c 26	17.4	91.6	997 9	CNS0WSC
c 27	17.4	91.6	424 5	CO88370 BoVGen 12
c 28	17.4	91.6	435 1	AL960247 AL960247
c 29	17.4	91.6	477 8	BZ934659 CH240 90H
c 30	17.4	91.6	533 1	AL176870 AL176870
c 31	17.4	91.6	553 8	AQ819770 HS_4821_A
c 32	17.4	91.6	553 8	CK955068 4095153_B
c 33	17.4	91.6	658 9	CN794326 419481_B
c 34	17.4	91.6	667 9	CC770787 CH240 5N2
c 35	17.4	91.6	743 9	CR798818 GR0AA15A
c 36	17.4	91.6	780 9	CR916573 GR0AA15A
c 37	17.4	91.6	899 8	BZ862322 CH240 286
c 38	17.4	91.6	1045 9	CL093512 ISB1-23K3
c 39	16.4	86.3	154 9	CC518828 CH240-365
c 40	16.4	86.3	171 8	BZ881702 CH240-241
c 41	16.4	86.3	182 9	CC480699 CH240 308
c 42	16.4	86.3	183 9	CR833829 GR0AA15C
c 43	16.4	86.3	404 9	CC763977 CH240-410
c 44	16.4	86.3	425 1	AA089454 mn8905_r
c 45	16.4	86.3	429 8	BZ908709 CH240-98M

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry was saved in the following URL
<http://www.ludwig.org.brscripts/gethtml2.pl?tl=IL2&ts=IL2-BT0734-041000-178-C01&t3=2000-10-04&t4=1>
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 High quality sequence stop: 410.

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/mol_type="mRNA"

/db_xref="taxon:9606"

/dev_stage="Adult"

/clone_lib="BT0734"

/note="Organ: breast; Vector: puc18; Site_1: Smal; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No.

196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

ORIGIN

Query Match 100.0%; Score 19; DB 2; Length 412;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGCCTGAG 19
Db 100 GCCAGTGTGTTGCCTGAG 82

RESULT 2
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ACCESSION CN256146
VERSION EST. CN256146.1 GI:47272560
KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 417)
REFERENCE 1 (bases 1 to 417)
AUTHORS Brandenberger,R., Wei,H., Zhang,S., Lei,S., Murage,J., Fisk,G.J., Li,Y., Xu,C., Fang,R., Guigler,K., Rao,M.S., Mandalam,R., Lebkowski,J and Stanton,L.W.
TITLE JOURNAL Transcription characterization elucidates signaling networks that control human ES cell growth and differentiation
COMMENT Contact: Brandenberger R
Regenerative Medicine Geron Corporation
230 Constitution Drive, Menlo Park, CA 94025, USA
Tel: 650 473 8658
Fax: 650 473 7760
Email: rbrandenberger@geron.com
Invert Length: 417 Std Error: 0.00.

FEATURES source
source
1. .417
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/mol_type="mRNA"
/db_xref="taxon:9606"
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/clone_lib="GRN_ES"
/note="oligo dT primed, full-length enriched cDNA library from undifferentiated HES cell lines H1 (p32), H7 (p29), and H9 (p26) maintained in feeder-free conditions"

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGCCTGAG 19
Db 83 GCCAGTGTGTTGCCTGAG 101

RESULT 3
BF840993/c LOCUS DEFINITION RC3-HT0974-011200-013-a03 HT0974 Homo sapiens cDNA, mRNA sequence.
ACCESSION BF840993
VERSION EST. BF840993.1 GI:12193641
KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bacteria; Archaea; Prokaryotes; Viruses; Fungi; Protists; Invertebrates; Monera; Unpublished (1999)
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 447)
Dias Neto, E., Garcia Correa, R., Verjovaki-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordim, S., Costa, F.R., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.

Shotgun sequencing of the human transcriptome with ORF expressed sequence tags Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

QY 1 GCCAGTGTGTTGCCTGAG 19
Db 100 GCCAGTGTGTTGCCTGAG 82

RESULT 2
CN56146 CN256146 DEFINITION 1700532186935 GRN_ES Homo sapiens cDNA 5', mRNA sequence.
ACCESSION CN256146
VERSION EST. CN256146.1 GI:47272560
KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 417)
REFERENCE 1 (bases 1 to 417)
AUTHORS Brandenberger,R., Wei,H., Zhang,S., Lei,S., Murage,J., Fisk,G.J., Li,Y., Xu,C., Fang,R., Guigler,K., Rao,M.S., Mandalam,R., Lebkowski,J and Stanton,L.W.
TITLE JOURNAL Transcription characterization elucidates signaling networks that control human ES cell growth and differentiation
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: absimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (<http://www.ludwig.org.br/scripts/gethm12.pl?ti=RC3&t2=RC3-HT0974-011200-013-a03&t3=2000-12-01&t4=1>)
Seq primer: puc 18 forward
High quality sequence start: 29
High quality sequence stop: 447.
Location/Qualifiers

FEATURES source
source
1. .447
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/dev_stage="Adult"
/clone_lib="HT0974"
/note="Orfan: head neck; Vector: puc18; Site 1: Small; Site 2: Small; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
ORIGIN
Query Match 100.0%; Score 19; DB 2; Length 447;
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGTGTGTTGCCTGAG 19
Db 420 GCCAGTGTGTTGCCTGAG 402

RESULT 4
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ACCESSION AL02133
VERSION AL02133.1 GI:19685488
KEYWORDS SOURCE Homo sapiens (human)
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. (bases 1 to 513)
REFERENCE AUTHORS Bloecher,H., Boecker,M., Brandt,P., Mewes,W., Weil,B. and Wiemann,S.
TITLE EST (Bloecher,H., Boecker,M., Brandt,P., Mewes,W., Weil,B. and Wiemann,S.)
JOURNAL Unpublished (1999)
COMMENT Contact: MIPS
MIPS

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OM nucleic - nucleic search, using bw model

Run on: July 31, 2005, 14:44:02 ; Search time 546.895 seconds
 (without alignments)
 1683.411 Million cell updates/sec

Title: US-10-041-856-83

Perfect score: 19

Sequence: 1 cggatgtcaactgttgtgc 19

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext: 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

Database :

GenEmbl_*

- 1: gb_bas:*
- 2: gb_hdg:*
- 3: gb_inl:*
- 4: gb_omt:*
- 5: gb_over:*
- 6: gb_pdt:*
- 7: gb_pbi:*
- 8: gb_pil:*
- 9: gb_prv:*
- 10: gb_ror:*
- 11: gb_sts:*
- 12: gb_tsv:*
- 13: gb_uni:*
- 14: gb_vrl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
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3	19	100.0	803	AX867248
4	19	100.0	2471	BD157787
5	19	100.0	2471	AX879348
6	19	100.0	2471	AK022559
7	19	100.0	3516	CQ724004
8	19	100.0	3999	AR070165
9	19	100.0	3999	AR124807
10	19	100.0	4417	CQ850139
11	19	100.0	4417	AK127337
12	19	100.0	4788	BD156525
13	19	100.0	4788	AX877177
14	19	100.0	4788	AK001641
15	19	100.0	4803	BD171366
16	19	100.0	4803	BD173600
17	19	100.0	4803	AK210634
18	19	100.0	4803	AF044195
19	19	100.0	5047	BC033094

LISTINGS

ALIGMENTS

20	19	100.0	5924	6	AX676049	AX676049 Sequence	
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22	19	100.0	66479	6	AX67604	AX67604 Sequence	
c	23	19	100.0	78376	9	AL359692	AL359692 Human DNA
c	24	17.4	91.6	4347	4	AF389202	AF389202 Oryctolag
c	25	17.4	91.6	166062	16	AC146313	AC146313 Rongo pyg
c	26	17.4	91.6	176547	9	AC093447	AC093447 Homo sapi
c	27	17.4	91.6	184062	9	AC149232	AC149232 Pan trogl
c	28	17.4	91.6	191966	9	AC150280	AC150280 Pan trogl
c	29	17	89.5	151559	9	AL390294	AL390294 Human DNA
c	30	17	89.5	190891	2	AC058800	AC058800 Homo sapi
c	31	16.4	86.3	3644	14	HNU0BMS	L33685 Hantavirus
c	32	16.4	86.3	25057	8	SPCPB11	ALL17183 S. pombe C
c	33	16.4	86.3	97057	9	AL627344	AL627344 Human DNA
c	34	16.4	86.3	11363	5	AC008605	AC008605 Homo sapi
c	35	16.4	86.3	116730	9	AC008548	AC008548 Homo sapi
c	36	16.4	86.3	151301	2	AL354717	AL354717 Homo sapi
c	37	16.4	86.3	156764	2	AC13268	AC13268 Ratius no
c	38	16.4	86.3	16781	9	AC058784	AC058784 Homo sapi
c	39	16.4	86.3	163910	5	AC143802	AC143802 Xenopus t
c	40	16.4	86.3	166950	9	AC13414	AC13414 Homo sapi
c	41	16.4	86.3	167227	2	CR759866	CR759866 Danio rer
c	42	16.4	86.3	168666	2	AC131085	AC131085 Mus muscu
c	43	16.4	86.3	168974	10	AC132135	AC132135 Mus muscu
c	44	16.4	86.3	170141	2	AC015479	AC015479 Homo sapi
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REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 8033)	1 (bases 1 to 8033)
AUTHORS	Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J., Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
TITLE	Primer for synthesizing full-length cDNA and use thereof
JOURNAL	PATENT: JP 200211363-A/2153 09-JUL-2002;
HELIIX RESEARCH INSTITUTE	
COMMENT	
OS	Homo sapiens (human)
PN	JP 2002191363-A/2153
PD	09-JUL-2002
PP	JP 2000289990
PI	TOSHIO OTA, TAKAO ISOGAI, TETSUO NISHIKAWA, KOJI HAYASHI, KAORU SAITO, JUNICHI YAMAMOTO, SHIZUKO ISHII, TOMOYASU SUGIYAMA, AI WAKAMATSU, KEIICHI NAGAI, TETSUJI OTSUKI
PC	C12N15/09, C07K14/47, C07K16/18, C12N1/15, C12N1/19, C12N1/21, C12N5/00 CC
FT	Primer for synthesizing full-length cDNA and use thereof
source	Location/Qualifiers
1.	.803 /organism="Homo sapiens"
QY	/mol_type="genomic DNA"
Db	/db_xref="taxon:9606"
FEATURES	
source	
ORIGIN	
Query Match	100.0%; Score 19; DB 6; Length 803;
Best Local Similarity	100.0%; Pred. No. 24;
Matches	0; Mismatches 0; Indels 0; Gaps 0;
19;	Conservative
LOCUS	AX867248 Sequence 2153 from Patent EP1074617.
DEFINITION	803 bp DNA linear
ACCESSION	PAT 17-DEC-2003
VERSION	AX867248.1 GI:40021619
KEYWORDS	
SOURCE	
ORGANISM	Homo sapiens (human)
FEATURES	
source	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J., Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
TITLE	Primers for synthesising full-length cDNA and their use
JOURNAL	Patent: EP 1074617-A 2153 07-FEB-2001;
Research Association for Biotechnology (JP)	
LOCATION/QUALIFIERS	
FEATURES	
source	
ORIGIN	
Query Match	100.0%; Score 19; DB 6; Length 803;
Best Local Similarity	100.0%; Pred. No. 24;
Matches	0; Mismatches 0; Indels 0; Gaps 0;
QY	1 CGGATTCGTCAGTGTGTC 19
Db	/mol_type="unassigned DNA"
/db_xref="taxon:9606"	78 CGGATTCGTCAGTGTGTC 96
FEATURES	
source	
ORIGIN	
Query Match	100.0%; Score 19; DB 6; Length 803;
Best Local Similarity	100.0%; Pred. No. 24;
Matches	0; Mismatches 0; Indels 0; Gaps 0;
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Db	/mol_type="unassigned DNA"
/db_xref="taxon:9606"	78 CGGATTCGTCAGTGTGTC 96
FEATURES	
source	
ORIGIN	
Query Match	100.0%; Score 19; DB 6; Length 2471;
Best Local Similarity	100.0%; Pred. No. 22;
Matches	0; Mismatches 0; Indels 0; Gaps 0;
19;	Conservative
LOCUS	AX879348 Sequence 14253 from Patent EP1074617.
DEFINITION	2471 bp DNA linear
ACCESSION	PAT 17-DEC-2003
VERSION	AX879348.1 GI:40034084
KEYWORDS	
SOURCE	
ORGANISM	Homo sapiens (human)
FEATURES	
source	
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,J., Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
TITLE	Primers for synthesising full-length cDNA and their use
JOURNAL	Patent: EP 1074617-A 1253 07-FEB-2001;
Research Association for Biotechnology (JP)	
LOCATION/QUALIFIERS	
FEATURES	
source	
ORIGIN	
Query Match	100.0%; Score 19; DB 6; Length 2471;
Best Local Similarity	100.0%; Pred. No. 24;
Matches	0; Mismatches 0; Indels 0; Gaps 0;
QY	1 CGGATTCGTCAGTGTGTC 19
Db	/mol_type="unassigned DNA"
/db_xref="taxon:9606"	772. .1992 /note="unnamed protein product" /coor_start=1 /protein_id="CAB90475.1"

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Om nucleic - nucleic search, using sw model

Run on: July 31, 2005, 09:42:59 ; Search time 134.525 Seconds

(without alignment(s))
 836.092 Million cell updates/sec

Title: US-10-041-856-83

Perfect score: 19

Sequence: cggattgtcaactgttgtgc 19

Scoring table: IDENTITY_NUC

Gappop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

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6: geneseqn2002ab:*

7: geneseqn2002bs:*

8: geneseqn2003ab:*

9: geneseqn2003bs:*

10: geneseqn2003cs:*

11: geneseqn2003cb:*

12: geneseqn2004ab:*

13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

ALIGNMENTS

Result No.	Score	Query Match Length	DB ID	Description
1	19	100.0	19 6 ABQ80559	Abq80559 IKBKAP PC
2	19	100.0	803 4 AHH05318	Ahh05318 Human CDN
3	19	100.0	2471 4 AHH15795	Ahh15795 Human CDN
4	19	100.0	3999 2 AAX28025	Aax28025 Human IKA
5	19	100.0	3999 4 AAF29756	Aaf29756 Human IKA
6	19	100.0	4417 13 ADR07102	Adr07102 Full leng
7	19	100.0	4788 4 AHH1533	Ahh1533 Human CDN
8	19	100.0	4803 5 AHH1767	Ahh1767 Human dif
9	19	100.0	4803 6 ARL44190	Arl44190 Human I-K
10	19	100.0	5924 6 ABQ80569	Abq80569 Human IKB
11	19	100.0	5924 8 ACD13384	Accl3384 Human DNA
12	19	100.0	66479 6 ABQ80566	Abq80566 Human DNA
13	19	100.0	66479 6 ABQ80565	Abq80565 Human IKB
14	17.4	91.6	5924 6 ABQ80570	Abq80570 Mutant hu
15	17.4	91.6	66479 6 ABQ80567	Abq80567 Mutant hu
16	17.4	91.6	66479 6 ABQ80568	Abq80568 Mutant hu
17	16.4	86.3	28564 10 ADE53609	Ad53609 Human gen
C	18	15.8	83.2 1296 5 AAS69798	Aas69798 DNA encod
c	19	15.8	83.2 1296 5 AAS84942	Aas84942 DNA encod
20	15.8	83.2	2544 5 AAH65453	Aah65453 C glutami

The present invention relates to methods and compositions useful for detecting mutations which cause Familial Dysautonomia (FD), Riley-Day syndrome, Hereditary Sensory and Autonomic Neuropathy Type III (ONIM 223001). It was found that mutations in the IKBKAP gene (see ABQ80565) are associated with FD. The mutation associated with the major haplotype of FD, FD1 mutation, is a base pair (bp) mutation, where the thymine

CC nucleotide located at bp 6 of intron 20 in the IKBAP gene is replaced
 CC with a cytosine. This results in skipping of exon 20 in the mRNA from FD
 CC patients, although they continue to express varying levels of wild-type
 CC message in a tissue-specific manner. The mutation associated with the
 minor haplotype, FD2 mutation, is a bp mutation, where the guanine
 CC at bp 2397 (bp 73 of exon 19) is replaced with a cytosine.
 CC This bp mutation causes an arginine to proline missense mutation (R696P)
 CC in the IKBAP protein, which is predicted to disrupt a potential
 phosphorylation site. The IKBAP nucleic acid sequences are useful for
 CC identifying a subject with FD and for rapid carrier screening. The IKBAP
 CC gene maps to chromosome 9q31. PCR primers ABQ80558-ABQ80560 were used to
 CC detect the splicing defect in IKBAP gene.

SQ Sequence 19 BP; 2 A; 4 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 100.0%; Score 19; DB 6; Length 19;
 Best Local Similarity 100.0%; Pred. No. 5.5; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGATTGCACGTGTGCC 19

Db 1 CGGATTGTCACTGTGTGCC 19

RESULT 2

AH05318
 ID AH05318 Standard; cDNA; 803 BP.

XX AC AAH05318;
 XX DT 26-JUN-2001 (first entry)

DE Human cDNA clone (5'-primer) SEQ ID NO:2153.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 OS Homo sapiens.

XX PN EF1074617-A2.
 XX PD 07-FEB-2001.

XX PP 28-JUL-2000; 2000BP-00116126.

XX PR 29-JUL-1999; 99JP-00248036.

XX PR 27-AUG-1999; 99JP-00300253.

XX PR 11-JAN-2000; 2000JP-00118776.

XX PR 02-MAY-2000; 2000JP-00183767.

XX PR 09-JUN-2000; 2000JP-00241899.

XX PA (HELI-) HELIX RES INST.

XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

XX DR PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

XX PT Claim 1; SEQ ID NO 2153; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification, where a primer set comprises:

CC (a) an oligo-dT primer and an oligonucleotide complementary to the nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a

CC polynucleotide which comprises a 3'-end sequence, where the oligonucleotide comprises at least 15 nucleotides and the combination of the 5'-end sequence, 3'-end sequence is selected from those defined in the specification. The primer sets can be used in antisense therapy and in gene therapy. The primers are useful for synthesising polynucleotides, particularly full-length cDNAs. The primers are also useful for detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs. The primers allow obtaining of the full-length cDNAs easily without any specialised methods. AH01166 to AH13628 and AH1363 to AH18742 represent human cDNA sequences; AB92446 to AB95893 represent human amino acid sequences; and AH13629 to AH13632 represent oligonucleotides, all of which are used in the exemplification of the present invention.

SQ Sequence 803 BP; 251 A; 154 C; 172 G; 222 T; 0 U; 4 Other;

Query Match 100.0%; Score 19; DB 4; Length 803;
 Best Local Similarity 100.0%; Pred. No. 9.2; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGATTGTCACGTGTGCC 19

Db 78 CGGATTGTCACGTGTGCC 96

RESULT 3

AAH15795
 ID AAH15795 Standard; cDNA; 2471 BP.

XX AC AAH15795;
 XX DT 26-JUN-2001 (first entry)

DE Human cDNA sequence SBQ ID NO:14253.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
 OS Homo sapiens.

XX PN EP1074617-A2.

XX PD 07-FEB-2001.

XX PR 28-JUL-2000; 2000EP-00116126.

XX PR 29-JUL-1999; 99JP-00248036.

XX PR 27-AUG-1999; 99JP-00300253.

XX PR 11-JAN-2000; 2000JP-00118776.

XX PR 03-MAY-2000; 2000JP-00183767.

XX PR 09-JUN-2000; 2000JP-00241899.

XX PA (HELI-) HELIX RES INST.

XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;

XX DR PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
 XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

XX PT Claim 1; SEQ ID NO 14253; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification, where a primer set comprises:

CC (a) an oligo-dT primer and an oligonucleotide complementary to the nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a

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OM nucleic - nucleic search, using sw model

Run on: July 31, 2005, 14:57:07 ; Search time 39.2901 Seconds

(without alignment(s)) 791.274 Million cell updates/sec

Title: US-10-041-856-83
 Perfect score: 19
 Sequence: 1 cggattgtcaactgttgtgc 19
 Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters:

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Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Maximum Match 100%
 Listing first 45 summaries

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 2: /cn2_6/podata/1/lina/5B_COMB.seq; *
 3: /cgpn2_6/podata/1/lina/6A_COMB.seq; *
 4: /cgpn2_6/podata/1/lina/6B_COMB.seq; *
 5: /cn2_6/podata/1/lina/petus_COMB.seq; *
 6: /cgpn2_6/podata/1/lina/backfile1.seq; *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result %

No. Score Query Match Length DB ID

Description

ALIGNMENTS

Query	1	CGGATTGTCACTGTGTGC	19
US-09-949-016-13907	15	78.9	35840
US-09-949-016-13908	22	78.9	35840
US-09-949-016-1788	14.8	77.9	359
US-09-949-016-3277	24	77.9	601
US-09-949-016-52242	25	77.9	601
US-09-949-016-52243	26	77.9	601
US-09-949-016-157068	27	77.9	601

RESULT 1

US-08-971-244-1

Sequence 1, Application US/08971244

Patent No. 5891719

GENERAL INFORMATION:

APPLICANT: Cohen, Lucy

ATTORNEY/AGENT INFORMATION:

NAME: OSMAN, RICHARD A

REGISTRATION NUMBER: 36,627

REFERENCE/DOCKET NUMBER: T97-011

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 343-4341

FAX: (650) 343-4342

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 3999 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..3996

US-08-971-244-1

Sequence 13907, A
 Sequence 13908, A
 Sequence 1788, AP
 Sequence 35277, A
 Sequence 59242, A
 Sequence 59243, A

Query Match 100.0%; Score 19; DB 2; Length 3999;
 Best Local Similarity 100.0%; Pred. No. 2.6;
 Matches 19; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Db 2086 CGGATTGTCACGTGTGTC 2104

RESULT 2

US-09-286-891-1

; Sequence 1, Application US/09286891

; Patent No. 6172195

; GENERAL INFORMATION:

; APPLICANT: Cohen, Lucy

; APPLICANT: Bauerle, Patrick

; TITLE OF INVENTION: IKAP Proteins, Nucleic Acids and Methods

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 75 DENISE DRIVE

; CITY: HILLSBOROUGH

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94010

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/286,891

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: 08/971,244

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: OSMAN, RICHARD A

; REGISTRATION NUMBER: 36,627

; REFERENCE/DOCKET NUMBER: T97-011

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (650) 343-4341

; TELEFAX: (650) 343-4342

; INFORMATION FOR SEQ ID NO: 1:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 3999 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; MOLECULE TYPE: cDNA

; FEATURE: .

; LOCATION: 1..3996

; US-09-286-891-1:

; Query Match

; Best Local Similarity 100.0%; Score 19; DB 3;

; Matches 19; Conservatism 0; Mismatches 0; Indels 0; Gaps 0;

; QY 1 CGGATTGTCACGTGTGTC 19

; Db 2086 CGGATTGTCACGTGTGTC 2104

; RESULT 3

; US-09-270-767-11478/c

; Sequence 11478, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Hamburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

; FILE REFERENCE: File Reference: 7726-094

; CURRENT APPLICATION NUMBER: US/09/270,767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 1178

; LENGTH: 1839

; TYPE: DNA
 ; ORGANISM: Drosophila melanogaster
 ; FEATURE:
 ; OTHER INFORMATION: n means any nucleotide

; US-09-270-767-11478

; Query Match 83.2%; Score 15.8; DB 4; Length 1839;
 ; Best Local Similarity 89.5%; Pred. No. 1.e+02;
 ; Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGGATTGTCACGTGTGTC 19

; Db 1366 CGGATTGTCACGTGTGTC 1348

; RESULT 4

; US-09-602-787A-577

; Patent No. 669561

; GENERAL INFORMATION:

; APPLICANT: Pompejus, Mark

; APPLICANT: Kanger, Burkhard

; APPLICANT: Schidler, Hartwig

; APPLICANT: Zelzer, Oskar

; APPLICANT: Haberhauer, Gregor

; TITLE OF INVENTION: CORNEBACTERIUM GLUTAMICUM GENES ENCODING PROTEINS

; TITLE OF INVENTION: INVOLVED IN MEMBRANE SYNTHESIS AND MEMBRANE

; TITLE OF INVENTION: TRANSPORT

; FILE REFERENCE: BGI-125CP

; CURRENT APPLICATION NUMBER: US/09/602-787A

; CURRENT FILING DATE: 2000-06-23

; PRIOR APPLICATION NUMBER: USNN 6/141031

; PRIOR FILING DATE: 1999-06-25

; PRIOR APPLICATION NUMBER: DE 19931454 3

; PRIOR FILING DATE: 1999-07-08

; PRIOR APPLICATION NUMBER: DE 19931478 0

; PRIOR FILING DATE: 1999-07-08

; PRIOR APPLICATION NUMBER: DE 19931563 9

; PRIOR FILING DATE: 1999-07-08

; PRIOR APPLICATION NUMBER: DE 19932122 1

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932124 8

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932125 6

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932128 0

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932180 9

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932182 5

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932190 6

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932191 4

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932209 0

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932212 0

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 1993227 9

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 1993228 7

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 1993229 5

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 1993230 9

; PRIOR FILING DATE: 1999-07-09

; PRIOR APPLICATION NUMBER: DE 19932927 3

; PRIOR FILING DATE: 1999-07-14

; PRIOR APPLICATION NUMBER: DE 19933005 0

; PRIOR FILING DATE: 1999-07-14

; PRIOR APPLICATION NUMBER: DE 19933006 9

; PRIOR FILING DATE: 1999-07-14

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OM nucleic - nucleic search, using sw model
Run on: July 31, 2005, 16:38:33 ; Search time 193.988 Seconds
(without alignments)

633.931 Million cell updates/sec
Title: US-10-041-856-83
Perfect score: 19
Sequence: 1 cggattgtcaactgttgtgc 19

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext: 1.0

Searched: 7287783 seqs, 3236178273 residues

Total number of hits satisfying chosen parameters: 14575566
Minimum DB seq length: 0
Maximum DB seq length: 200000000

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Listing first 45 summaries

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4: /cgnd_6/podata/1/pubpna/us06_PUBCOMB.seq: *

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is determined by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	19	100.0	19	US-10-041-856-83
2	19	100.0	4803	10 US-09-930-013-276
3	19	100.0	4803	21 US-10-956-157-094
4	19	100.0	5924	13 US-10-041-856-2
5	19	100.0	65479	13 US-10-041-856-1
6	18.6	97.9	201	13 US-10-719-993-4529
7	18.6	97.9	201	20 US-10-719-993-4527

ALIGNMENTS

RESULT 1

US-10-041-856-83

; Sequence 83, Application US/10041856

; Publication No. US20020169299A1

; GENERAL INFORMATION:

; APPLICANT: SLAUGENHAUT, SUSAN

; APPLICANT: GUSELLA, JAMES F.

; TITLE OF INVENTION: IDENTIFYING INDIVIDUALS WITH FAMILIAL

; TITLE OR INVENTION: DYSAUTONOMIA

; FILE REFERENCE: 1829-4004PS1

; CURRENT APPLICATION NUMBER: US/10/041, 856

; CURRENT FILING DATE: 2002-07-08

; PRIOR FILING DATE: 2001-01-06

; NUMBER OF SEQ ID NOS: 88

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO: 83

; LENGTH: 19

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: Primer

; US-10-041-856-83

; Query Match Score: 100.0%; Score: 19; DB: 13; Length: 19;

; Best Local Similarity Pred. No.: 5.3.; Sequence 1094, App. Matches: 19; Conservative: 0; Mismatches: 0; Indels: 0; Gaps: 0;

; Sequence 4499, App. Sequence 4556, App. Sequence 4585, App. Sequence 4613, App. Sequence 34995, A

; Sequence 319, App. Sequence 322, App. Sequence 320, App. Sequence 321, App. Sequence 318, App. Sequence 6663, App. Sequence 548, App. Sequence 549, App. Sequence 123, App. Sequence 7099, A

; Sequence 112, App. Sequence 20615, A

; Sequence 488, App. Sequence 487, App. Sequence 1, App. Sequence 7576, A

; Sequence 393, App. Sequence 394, App. Sequence 35933, A

; Sequence 3955, App. Sequence 393, App. Sequence 394, App. Sequence 3953, A

; Sequence 2167, App. Sequence 3994, App. Sequence 3995, A

; Sequence 3994, App. Sequence 3995, A

Db 1 CGGATTCGCACTGTGTGC 19

RESULT 2

US-09-930-213-276

Publication No. US20030170625A1

SEQUENCE 276 Application US/09930213

GENERAL INFORMATION:

APPLICANT: ROSENTHAL, ANDRE

APPLICANT: HINZMANN, BERND

APPLICANT: SCHAFER, REINHARD

APPLICANT: ZUBER, JOHANNES

APPLICANT: TCHB-NITSE, OLEK

APPLICANT: GRIPS, MARTIN

APPLICANT: HELLINEGEL, MARTIN

APPLICANT: SCHMITZ, ANNE-CHANTAL

APPLICANT: SEERS, CHRISTINE

APPLICANT: PATENTIN VER. 2.1

TITLE OF INVENTION: DETECTION OF DIFFERENTIAL GENE EXPRESSIONS

FILE REFERENCE: ALBEB-14

CURRENT APPLICATION NUMBER: US/09/930,213

CURRENT FILING DATE: 2001-01-31

PRIOR APPLICATION NUMBER: DE 10004102.7

PRIOR FILING DATE: 2000-01-31

NUMBER OF SEQ ID NOS: 88

SEQ ID NO: 276

LENGTH: 4803

TYPE: DNA

ORGANISM: Homo sapiens

US-09-930-213-276

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

4803;

Score

19;

DB

10;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 2389 CGGATTCGCACTGTGTGC 2407

RESULT 3

US-10-956-157-1094

SEQUENCE 1094 Application US/10956157

GENERAL INFORMATION:

APPLICANT: Wyeth

APPLICANT: Mounts, William

TITLE OF INVENTION: NUCLEAR ACID ARRAYS FOR DETECTING GENE EXPRESSION ASSOCIATED WITH

TITLE OF INVENTION: HUMAN OSTEOARTHRITIS AND HUMAN PROTEASES

FILE REFERENCE: 031096-003000 (AM 101081)

CURRENT APPLICATION NUMBER: US/10/956,157

CURRENT FILING DATE: 2004-10-04

NUMBER OF SEQ ID NOS: 319805

SOFTWARE: Patentin version 3.2

SEQ ID NO 1094

LENGTH: 4803

TYPE: DNA

ORGANISM: Homo sapiens

US-10-956-157-1094

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

4803;

Score

19;

DB

21;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 33713 CGGATTCGCACTGTGTGC 33731

RESULT 5

US-10-041-856-1

SEQUENCE 1 Application US/10041856

GENERAL INFORMATION:

APPLICANT: SLAUGENHAUPT, SUSAN

APPLICANT: GUSELLA, JAMES F.

TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL

TITLE OF INVENTION: DISAUTONOMIA

FILE REFERENCE: 1839-4004US1

CURRENT APPLICATION NUMBER: US/10/041, 856

CURRENT FILING DATE: 2002-07-08

PRIORITY NUMBER: 601260, 080

NUMBER OF SEQ ID NOS: 88

SEQ ID NO 1

LENGTH: 5924

TYPE: DNA

ORGANISM: Homo sapiens

US-10-041-856-2

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

5924;

Score

19;

DB

13;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 33713 CGGATTCGCACTGTGTGC 33731

RESULT 6

US-10-719-933-4499

SEQUENCE 1 Application US/10719993

GENERAL INFORMATION:

APPLICANT: CARGILL, Michele et al.

APPLICANT: GENEtic POLYMORPHISMS ASSOCIATED WITH

TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH

TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: C101496

CURRENT APPLICATION NUMBER: US/10/719, 993

CURRENT FILING DATE: 2003-11-24

NUMBER OF SEQ ID NOS: 55342

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 4499

LENGTH: 201

TYPE: DNA

ORGANISM: Homo sapiens

US-10-956-157-1094

Query Match

Best Local Similarity

100.0%; Score

19; DB

21; Length

4803;

Score

19;

DB

21;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 2389 CGGATTCGCACTGTGTGC 2407

RESULT 7

US-10-041-856-3

SEQUENCE 1 Application US/10041856

GENERAL INFORMATION:

APPLICANT: GUSELLA, JAMES F.

TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL

TITLE OF INVENTION: DISAUTONOMIA

FILE REFERENCE: 1839-4004US1

CURRENT APPLICATION NUMBER: US/10/041, 856

CURRENT FILING DATE: 2002-07-08

PRIORITY NUMBER: 601260, 080

NUMBER OF SEQ ID NOS: 88

SEQ ID NO 1

LENGTH: 5924

TYPE: DNA

ORGANISM: Homo sapiens

US-10-041-856-4

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

4803;

Score

19;

DB

13;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 2389 CGGATTCGCACTGTGTGC 2407

RESULT 8

US-10-041-856-5

SEQUENCE 1 Application US/10041856

GENERAL INFORMATION:

APPLICANT: GUSELLA, JAMES F.

TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL

TITLE OF INVENTION: DISAUTONOMIA

FILE REFERENCE: 1839-4004US1

CURRENT APPLICATION NUMBER: US/10/041, 856

CURRENT FILING DATE: 2002-07-08

PRIORITY NUMBER: 601260, 080

NUMBER OF SEQ ID NOS: 88

SEQ ID NO 1

LENGTH: 5924

TYPE: DNA

ORGANISM: Homo sapiens

US-10-041-856-6

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

4803;

Score

19;

DB

13;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 2389 CGGATTCGCACTGTGTGC 2407

RESULT 9

US-10-041-856-7

SEQUENCE 1 Application US/10041856

GENERAL INFORMATION:

APPLICANT: GUSELLA, JAMES F.

TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL

TITLE OF INVENTION: DISAUTONOMIA

FILE REFERENCE: 1839-4004US1

CURRENT APPLICATION NUMBER: US/10/041, 856

CURRENT FILING DATE: 2002-07-08

PRIORITY NUMBER: 601260, 080

NUMBER OF SEQ ID NOS: 88

SEQ ID NO 1

LENGTH: 5924

TYPE: DNA

ORGANISM: Homo sapiens

US-10-041-856-8

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

4803;

Score

19;

DB

13;

Indels

0;

Matches

19;

Conservative

0;

Mismatches

0;

Gaps

0;

Qy 1 CGGATTCGCACTGTGTGC 19

Db 2389 CGGATTCGCACTGTGTGC 2407

RESULT 10

US-10-041-856-9

SEQUENCE 1 Application US/10041856

GENERAL INFORMATION:

APPLICANT: GUSELLA, JAMES F.

TITLE OF INVENTION: GENE FOR IDENTIFYING INDIVIDUALS WITH FAMILIAL

TITLE OF INVENTION: DISAUTONOMIA

FILE REFERENCE: 1839-4004US1

CURRENT APPLICATION NUMBER: US/10/041, 856

CURRENT FILING DATE: 2002-07-08

PRIORITY NUMBER: 601260, 080

NUMBER OF SEQ ID NOS: 88

SEQ ID NO 1

LENGTH: 5924

TYPE: DNA

ORGANISM: Homo sapiens

US-10-041-856-10

Query Match

Best Local Similarity

100.0%; Pred.

No. 10;

Length

4803;

Score

19;

DB

13;

Indels

0;

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
 Run on: July 31, 2005, 15:46:58 ; Search time 930.414 Seconds

{without alignments} 777.301 Million cell updates/sec

Title: US-10-041-856-83
 Perfect score: 19 cggattgtcaactgttgtgc 19
 Sequence: AY13257 Pan trogl

Scoring table: IDENTITY_NUC
 Gapop 10.0 , Gapext: 1.0

Searched: 3423954 seqs, 19032134700 residues

Total number of hits satisfying chosen parameters:

68479088

Minimum DB seq length: 0
 Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
 Listing first 45 summaries

Database : EST:
 1: gb_est1:
 2: gb_est2:
 3: gb_htc:
 4: gb_est3:
 5: gb_est4:
 6: gb_est5:
 7: gb_est6:
 8: gb_gbs1:
 9: gb_gbs2:
 *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	19	100.0	417	7 CN256146	RESULT 1 CN256146 LOCUS CN256146 DEFINITION 417 bp mRNA linear EST 16-MAY-2004 ACCESSION CN256146 VERSION 1 GI:47272560 KEYWORDS EST SOURCE Homo sapiens (human)
c 2	19	100.0	447	2 BF840593	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 417)
c 3	19	100.0	513	1 AL702133	Brandenberger,R., Wei,H., Zhang,S., Lei,S., Murage,J., Fisk,G.J., Li,Y., Xu,C., Yang,R., Guigle,K., Rao,M.S., Mandalam,R., Lebkowski,J and Stanton,L.W.
c 4	19	100.0	553	4 BN512007	transcriptome characterization elucidates signaling networks that control human ES cell growth and differentiation
c 5	19	100.0	580	5 BP243833	Nat. Biotechnol. 22 (6), 707-716 (2004)
c 6	19	100.0	603	5 BX478139	Contact: Brandenberger R COMMENT Regenerative Medicine Geron Corporation 230 Constitution Drive, Menlo Park, CA 94025, USA Tel: 650 473 8658 Fax: 650 473 7760 Email: rbrandenberger@geron.com
c 7	19	100.0	618	4 BG395601	FEATURES Insert Length: 417 Std Error: 0.00.
c 8	19	100.0	641	5 BQ807986	source 1..417 /organism="Homo sapiens" /mol_type="mRNA" /db_xref="taxon:9606" /tissue_type="embryonic stem cells, cell lines H1, H7, and H9" /clone_lib="GRN ES" /note="Oligo dT primed, full-length enriched cDNA library from undifferentiated hES cell lines H1(p32), H7 (p29), and H9 (p26) maintained in feeder-free conditions"
c 9	19	100.0	709	7 CN256149	ORIGIN
c 10	19	100.0	803	1 AU124100	Query Match 100.0%; Score 19; DB 7; Length 417; Best Local Similarity 100.0%; Pred. No. 60; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
c 11	19	100.0	866	5 BU508979	CR749385 Homo sapi
c 12	19	100.0	874	5 BU156074	AY414501 Homo sapi
c 13	19	100.0	911	2 BB25629	AY414502 Pan trogl
c 14	19	100.0	931	4 BB286503	BH256766 6266_1001
c 15	19	100.0	1134	7 CN641971	CN958766 6266_1001
c 16	19	100.0	3833	3 CR749385	CE78192 tigr-gbs-
c 17	19	100.0	3999	9 AY414501	BM657393 170006874
c 18	19	100.0	3999	9 AY414502	BB428743 MT010_D0
c 19	17	89.5	442	7 CN958766	BB495948 WHE1259_A
c 20	17	89.5	625	9 CE78192	CL374464 RPCI44_47
c 21	17	89.5	703	4 BN657393	
c 22	16.4	86.3	397	4 BE428743	
c 23	16.4	86.3	425	2 BE495948	
c 24	16.4	86.3	458	9 CL374464	

ALIGNMENTS

25	16.4	86.3	470	9 CL571732	CL571732 OB_Bao01
26	16.4	86.3	501	2 BB58622	BB58622 WHB509_E
27	16.4	86.3	514	9 CC678317	CC678317 OGJU117V
28	16.4	86.3	521	1 AU248858	AU248858
29	16.4	86.3	542	4 BI728641	BI728641 103110E0
30	16.4	86.3	572	2 BB580631	BB580631 WHERE858_A
31	16.4	86.3	573	5 BU98069	BU98069 HA22623r
32	16.4	86.3	577	4 BJ280892	BJ280892
33	16.4	86.3	582	9 AY13257	AY13257 Pan trogl
34	16.4	86.3	591	5 BU991273	BU991273 HD0805r
35	16.4	86.3	613	4 BM002833	BM002833 103110E0
36	16.4	86.3	614	4 BI995634	BI995634 103102B0
37	16.4	86.3	628	6 CA637741	CA637741 wlein_pk0
38	16.4	86.3	631	6 CD816595	CD816595 AZ03_110E
39	16.4	86.3	636	4 BJ87535	BJ87535
40	16.4	86.3	649	6 CD917401	CD917401 G608_105D
41	16.4	86.3	660	5 BQ28523	BQ28523 TAB0503B
42	16.4	86.3	665	9 CB628574	CB628574 tigr-gbs-
43	16.4	86.3	668	1 AL646873	AL646873
44	16.4	86.3	668	4 BM002132	BM002132 103110E0
45	16.4	86.3	672	8 BZ745940	BZ745940 OGEBN94T

RESULT	2	BF840993/C	BF840993	447 bp	mRNA	linear	EST	13-JAN-2001
LOCUS	RC3-HT0974-011200-013-a03	HT0974	Homo sapiens	cDNA, mRNA sequence.				
DEFINITION								
ACCESSION	BF840993							
VERSION	BF840993.1		G1:12193641					
KEYWORDS	EST.							
SOURCE								
ORGANISM	Homo sapiens	(human)						
TITLE								
AUTHORS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordim, S., Costa, P.F., Goldmam, G., Carvalho, A.P., Matsukuma, S., Baia, G.S., Simpson, D.H., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.							
COMMENT	Shortseq sequencing of the human transcriptome with ORF expressed sequence tags							
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)							
MEDLINE	20202663							
PUBMED	10737800							
FEATURES	source							
1								
ORIGIN								
Query Match	100 %	Score 19;	DB 2;	Length 447;				
Best Local Similarity	100.0%	Pred. No. 60;						
Matches	19;	Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;		
Qy	1	CGGATGTCAGCTGTGAGC 19						
Db	313	CGGATGTCAGCTGTGAGC 295						
RESULT	3	AL702133	AL702133	513 bp	mRNA	linear	EST	04-SEP-2003
DEFINITION	DKFZp68602155-r1_686 (synonym: h1cc3)							
ACCESSION	DKFZp68602155-5,							
VERSION	AL702133							
KEYWORDS	EST.							
SOURCE	Homo sapiens (human)							

ORGANISM	Homo sapiens
Eukaryote	Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia	Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE	1 (bases 1 to 513)
AUTHORS	Bloecher,H., Boecker,M., Brandt,P., Mewes,W., Weil,B. and Wiemann,S.)
TITLE	EST (Bloecher,H., Boecker,M., Brandt,P., Mewes,H.W., Weil,B. and Wiemann,S.)
JOURNAL	Unpublished (1999)
COMMENT	Contact: MIPS
FEATURES	source
MIPS	Ingolstaedter Landstr.1, D-85764 Neuherberg, Germany
	This is the 5' part of the clone insert
	Clone from S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email: S.wiemann@dkfz-heidelberg.de;
	sequenced by GBR (National Research Centre for Biotechnology Ltd. Braunschweig (Germany) within the cDNA sequencing consortium of the German Genome Project.
	No 61 sequence available.
	This clone (DKRZP86G02155) is available at the RZPD in Berlin. Please contact the RZPD: Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.
LOCUS	Location/Qualifiers
ORIGIN	1..513
RESULT	4
BM512007	Query Match
LOCUS	BM512007
DEFINITION	Best Local Similarity 100.0%; Score 19; DB 1; Length 513; Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY	1 CGCGATGGCACTGTGTC 19
VERSION	BM512007
KEYWORDS	/clone lib="656 (synonym: h1cc3)" /dev_stage="adult" /lab_host="DH10B"
Db	298 CGGATGCACTGTGTC 316
SOURCE	cDNA-collection"
ORGANISM	
REFERENCE	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS	1 (bases 1 to 513)
	Melton,D., Brown,J., Kent,Y., Permutt,A., Lee,C., Kaestner,K., Lemishka,I., Scearce,M., Brestelli,J., Gradvohl,G., Clifton,S., Hillier,L., Marra,M., Pape,D., Wylie,T., Martin,J., Blitsstein,A., Schmitt,A., Theising,B., Ritter,R., Ronko,I., Bennett,J., Tsagareishvili,R., Cardena,M., Gibbons,M., McCann,R., Cole,R., Tsagareishvili,R., Williams,T., Jackson,Y. and Bowers,Y.
TITLE	Endocrine Pancreas Consortium
JOURNAL	Unpublished (2000)
COMMENT	Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue Harvard University, Howard Hughes Medical Institute Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, MA 02138 Tel: 617-495-8812 Fax: 617-495-8557 Email: dmelton@bio.hup.harvard.edu

Database : GenEmbl: * Listing file 43 summaries

ALIGNMENT

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

JOURNAL	Patent: WO 02059381-A 84 01-Aug-2002; The General Hospital Corporation (US)
FEATURES	Location/Qualifiers
SOURCE	<p>1. .20</p> <p>/organism="synthetic construct"</p> <p>/-</p> <p>/-</p>

1	20	100.0	20	6	AXK76131	AX676131 Sequence
2	20	100.0	803	6	BD147310	BD17310 Primer fo
3	20	100.0	803	6	AX867248	AX867248 Sequence
4	20	100.0	828	6	BD147338	Primer fo
5	20	100.0	828	6	AX867276	Sequence
6	20	100.0	2471	6	BD157787	Primer fo
7	20	100.0	2471	6	AXK79348	AX873348 Sequence
8	20	100.0	2471	9	AK022559	AK022559 Homo Sapi
9	20	100.0	2712	6	BD160487	BD160487 Primer fo
10	20	100.0	2712	6	AX883713	AX883713 Sequence
11	20	100.0	2712	9	AK024223	AK024223 Homo Sapi
12	20	100.0	3516	6	CQ724004	CQ724004 Sequence
13	20	100.0	3999	6	AR070165	AR070165 Sequence
14	20	100.0	3999	6	AK124807	AK124807 Sequence
15	20	100.0	4417	6	COB50139	COB50139 Sequence
16	20	100.0	4417	9	AK127337	AK127337 Homo Sapi
17	20	100.0	4788	6	BD156525	BD156525 Primer fo
18	20	100.0	4788	6	AK877177	AK877177 Sequence
19	20	100.0	4788	9	AK01641	AK01641 Homo Sapi

CC nucleotide located at bp 6 of intron 20 in the IKBAP gene is replaced with a cytosine. This results in skipping of exon 20 in the mRNA from FD patients, although they continue to express varying levels of wild-type message in a tissue-specific manner. The mutation associated with the minor haplotype, FD2 mutation, is a bp mutation, where the guanine nucleotide at bp 2397 (bp 73 of exon 19) is replaced with a cytosine. This bp mutation causes an arginine to proline missense mutation (R696P) in the IKBAP protein, which is predicted to disrupt a potential phosphorylation site. The IKBAP nucleic acid sequences are useful for identifying a subject with FD and for rapid carrier screening. The IKBAP gene maps to chromosome 9q31. PCR primers ABQ80558-ABQ80560 were used to detect the splicing defect in IKBAP gene.

SQ Sequence 20 BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCATAGCATGCC 20
Db 1 GACTGCTCATAGCATGCC 20

RESULT 2
AAH05318/C

ID AAH05318 standard; cDNA; 803 BP.
XX
AC AAH05318;
XX
DT 26-JUN-2001 (first entry)
XX Human cDNA clone (5'-primer) SEQ ID NO:2153.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
OS Homo sapiens.
XX EP1074617-A2.
PN XX
PD 07-FEB-2001.
XX PF 28-JUL-2000; 2000EP-00116126.
XX PR 29-JUL-1999; 99JP-00248036.
PR 21-AUG-1999; 99JP-00300253.
PR 11-JAN-2000; 2000JP-00118776.
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
XX PA (HELI-) HELIX RES INST.
XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
DR XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

PS Claim 1; SEQ ID NO 2153; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprise: (a) an oligo-dT primer and an oligonucleotide complementary to the nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of polynucleotide which comprises a 5'-end sequence and an oligonucleotide comprising a sequence complementary to a

CC polynucleotide which comprises a 3'-end sequence, where the CC oligonucleotide comprises at least 15 nucleotides and the combination of CC 5'-end sequence/3'-end sequence is selected from those defined in the CC specification. The primer sets can be used in antisense therapy and in CC gene therapy. The primers are useful for synthesising polynucleotides, CC particularly full-length cDNAs. The primers are also useful for the CC detection and/or diagnosis of the abnormality of the proteins encoded by CC the full-length cDNAs. The primers allow obtaining of the full-length CC cDNAs easily without any specialised methods. AAH0166 to AAH1368 and CC AAH1363 to AAH1742 represent human cDNA sequences; AAH9246 to AAH9893 represent human amino acid sequences; and AAH13629 to AAH13632 represent CC oligonucleotides, all of which are used in the exemplification of the present invention.

SQ Sequence 803 BP; 251 A; 154 C; 172 G; 222 T; 0 U; 4 Other;

Query Match 100.0%; Score 20; DB 4; Length 803;
Best Local Similarity 100.0%; Pred. No. 2.5; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCATAGCATGCC 20
Db 470 GACTGCTCATAGCATGCC 451

RESULT 3
AAH05346/C

ID AAH05346 standard; cDNA; 828 BP.
XX
AC AAH05346;
XX
DT 26-JUN-2001 (first entry)
XX Human cDNA clone (5'-primer) SEQ ID NO:2181.

KW Human; primer; detection; diagnosis; antisense therapy; gene therapy; ss.
OS Homo sapiens.
XX EP1074617-A2.
PN XX
PD 07-FEB-2001.
XX PF 28-JUL-2000; 2000EP-00116126.
XX PR 29-JUL-1999; 99JP-00248036.
PR 27-AUG-1999; 99JP-00300253.
PR 11-JAN-2000; 2000JP-00118776.
PR 02-MAY-2000; 2000JP-00183767.
PR 09-JUN-2000; 2000JP-00241899.
XX PA (HELI-) HELIX RES INST.

XX PI Ota T, Isogai T, Nishikawa T, Hayashi K, Saito K, Yamamoto J;
PI Ishii S, Sugiyama T, Wakamatsu A, Nagai K, Otsuki T;
DR XX WPI; 2001-318749/34.

PT Primer sets for synthesizing polynucleotides, particularly the 5602 full-length cDNAs defined in the specification, and for the detection and/or diagnosis of the abnormality of the proteins encoded by the full-length cDNAs.

PS Claim 1; SEQ ID NO 2181; 2537pp + Sequence Listing; English.

CC The present invention describes primer sets for synthesising 5602 full-length cDNAs defined in the specification. Where a primer set comprise: (a) an oligo-dT primer and an oligonucleotide complementary to the nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises one of the 5602 nucleotide sequences defined in the specification, where the oligonucleotide comprises at least 15 nucleotides; or (b) a combination of an oligonucleotide comprising a sequence complementary to the complementary strand of a polynucleotide which comprises a 5'-end

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model
Run on: July 31, 2005, 14:57:07 ; Search time 41.358 Seconds
(without alignments)

791.274 Million cell updates/sec
Title: US-10-041-856-84
Perfect score: 20
Sequence: 1. gactgtcttcatagcatcgcc 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*

1: /cgn2_6/ptodata/1/ina/5B-COMB.seq: *
2: /cgn2_6/ptodata/1/ina/5B-COMB.seq: *
3: /cgn2_6/ptodata/1/ina/6A-COMB.seq: *
4: /cgn2_6/ptodata/1/ina/6B-COMB.seq: *
5: /cgn2_6/ptodata/1/ina/pcTUS-COMB.seq: *
6: /cgn2_6/ptodata/1/ina/backfiles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
C 1	20	100.0	3999	2	US-08-971-244-1	Sequence 1, Appli
C 2	20	100.0	3999	3	US-09-286-891-1	Sequence 1, Appli
C 3	15.4	77.0	2550	4	US-10-029-180-95	Sequence 95, Appli
C 4	15.4	77.0	5436	2	US-08-948-277A-2	Sequence 2, Appli
C 5	15.4	77.0	5436	2	US-09-169-203-2	Sequence 2, Appli
C 6	15.4	77.0	118143	4	US-09-949-016-17196	Sequence 17196, A
C 7	15.2	76.0	601	4	US-09-949-016-109435	Sequence 109435,
C 8	15.2	76.0	601	4	US-09-949-016-109436	Sequence 109436,
C 9	15.2	76.0	601	4	US-09-949-016-109437	Sequence 109437,
C 10	15.2	76.0	24395	4	US-09-949-016-14758	Sequence 14758, A
C 11	15.2	76.0	101835	4	US-09-949-016-4695	Sequence 14695, A
C 12	15.2	76.0	246444	4	US-09-949-016-13113	Sequence 13113, A
C 13	14.8	74.0	274	4	US-09-902-540-1290	Sequence 1290, AP
C 14	14.8	74.0	339	4	US-09-134-00C-3	Sequence 3, Appli
C 15	14.8	74.0	601	4	US-09-949-016-7744	Sequence 7744, A
C 16	14.8	74.0	601	4	US-09-949-016-88850	Sequence 88850, A
C 17	14.8	74.0	601	4	US-09-949-016-1139	Sequence 89851, A
C 18	14.8	74.0	601	4	US-09-949-016-16695	Sequence 16695, A
C 19	14.8	74.0	601	4	US-09-949-016-16696	Sequence 16696, A
C 20	14.8	74.0	690	4	US-09-134-00C-1299	Sequence 16697, A
C 21	14.8	74.0	8321	4	US-09-949-016-15013	Sequence 15013, A
C 22	14.8	74.0	9391	4	US-09-949-016-14299	Sequence 14299, A
C 23	14.8	74.0	15789	4	US-09-902-540-1139	Sequence 1139, AP
C 24	14.8	74.0	21513	4	US-09-949-016-16695	Sequence 16695, A
C 25	14.8	74.0	21513	4	US-09-949-016-16696	Sequence 16696, A
C 26	14.8	74.0	21513	4	US-09-949-016-16697	Sequence 16697, A
C 27	14.8	74.0	53789	4	US-09-949-016-12137	Sequence 12137, A

ALIGNMENTS

RESULT 1
US-08-971-244-1/c
Sequence 1, Application US/08971244
; Patent No. 5891719
GENERAL INFORMATION:
; APPLICANT: Cohen, Lucy
; ATTORNEY/AGENT INFORMATION:
; NAME: OSMAN, RICHARD A
; REGISTRATION NUMBER: 36,627
; REFERENCE/DOCKET NUMBER: T97-011
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 343-4341
; FAX: (650) 343-4342
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3999 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..3996
; US-08-971-244-1

Query Match 100.0%; Score 20; DB 2; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0.5; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Sequence 12137, A

Db 2478 GACTGCTCATAGCATGCC 2459

RESULT 2

; Sequence 1, Application US/09286891

; Patent No. 6172195

; GENERAL INFORMATION:

; APPLICANT: Cohen, Lucy

; TITLE OF INVENTION: IKAP Proteins, Nucleic Acids and Methods

; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:

; ADDRESSE: SCIENCE & TECHNOLOGY LAW GROUP

; STREET: 75 DENISE DRIVE

; CITY: HILLSBOROUGH

; STATE: CALIFORNIA

; COUNTRY: USA

; ZIP: 94010

; COMPUTER READABLE FORM:

; MEDIUM TYPE: FLOPPY disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/286,891

FILING DATE: 08/09/2002

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/971,244

FILING DATE: 08/09/2001

ATTORNEY/AGENT INFORMATION:

NAME: OSMAN, RICHARD A

REGISTRATION NUMBER: 36,627

REFERENCE/DOCKET NUMBER: T97-011

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 343-4341

TELEFAX: (650) 343-4342

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 3999 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 1..3996

US-09-286-891-1

RESULT 3

Query Match 100.0%; Score 20; DB 3; Length 3999;

Best Local Similarity 100.0%; Prod. No. 0.5; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; MisMatche 0; Indel 0; Gap 0;

Qy 1 GACTGCTCATAGCATGCC 20

Db 2478 GACTGCTCATAGCATGCC 2459

RESULT 3

Query Match 100.0%; Score 20; DB 3; Length 3999;

Best Local Similarity 100.0%; Prod. No. 0.5; Mismatches 0; Indels 0; Gaps 0;

Matches 20; Conservative 0; MisMatche 0; Indel 0; Gap 0;

Db 2478 GACTGCTCATAGCATGCC 2459

FILE REFERENCE: NCC-004

CURRENT APPLICATION NUMBER: US/10/029,180

CURRENT FILING DATE: 2001-12-22

PRIOR APPLICATION NUMBER: US 60/257,431

PRIOR FILING DATE: 2000-12-22

NUMBER OF SEQ ID NOS: 138

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 95

LENGTH: 2550

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: fungal gene

US-10-029-180-95

Query Match 77.0%; Score 15.4; DB 4; Length 2550;

Best Local Similarity 94.1%; Prod. No. 1.5e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 16; Conservative 0; MisMatche 0; Indel 0; Gap 0;

Qy 4 TGCTCTCATAGCATGCC 20

Db 878 TGCCTCTCATATCATCGC 894

RESULT 4

US 08-948-277A-2

Sequence 2, Application US/08948277A

Patent No. 5843581

GENERAL INFORMATION:

APPLICANT: Amaral, M. Catherine

ATTORNEY/AGENT INFORMATION:

NAME: Zhang, Ning

REGISTRATION NUMBER: Chen, Jin-Long

REFERENCE/DOCKET NUMBER: Regulators of UCP3 Gene Expression

NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:

ADDRESSE: SCIENCE & TECHNOLOGY LAW GROUP

STREET: 75 DENISE DRIVE

CITY: HILLSBOROUGH

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 94010

COMPUTER READABLE FORM:

MEDIUM TYPE: FLOPPY disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/948,277A

FILING DATE: 08/09/2002

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: OSMAN, RICHARD A

REGISTRATION NUMBER: 36,627

REFERENCE/DOCKET NUMBER: T97-009

TELECOMMUNICATION INFORMATION:

TELEPHONE: (650) 343-4341

TELEFAX: (650) 343-4342

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 5436 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGI: linear

MOLECULE TYPE: DNA (genomic)

US-08-948-277A-2

Query Match 77.0%; Score 15.4; DB 2; Length 5436;

Best Local Similarity 94.1%; Prod. No. 1.7e+02; Mismatches 1; Indels 0; Gaps 0;

Matches 16; Conservative 0; MisMatche 1; Indel 0; Gap 0;

Qy 2 ACTGGTCTCATAGCATC 18

Db 256 ACTGGTCTCATAGCATC 272

OM nucleic - nucleic search, using sw model

Run on: July 31, 2005, 16:38:33 ; Search time 204.198 Seconds
 (w/o alignments)
 633.931 Million cell updates/sec

Title: US-10-041-856-84

Perfect score: 20

Sequence: 1 gactgtctcatagatcgcc 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 7287783 seqs, 3236178273 residues

Total number of hits satisfying chosen parameters: 14575566

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Maximum Match 0%
 Listing first 45 summaries

Database : Published Applications NA:*

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4: /cgn2_6/ptodata/1/pubpna/us06_PUBCOMB.seq:*

5: /cgn2_6/ptodata/1/pubpna/us07_NEW PUB.seq:*

6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*

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10: /cgn2_6/ptodata/1/pubpna/us09C_PUBCOMB.seq:*

11: /cgn2_6/ptodata/1/pubpna/us09_NEW PUB.seq:*

12: /cgn2_6/ptodata/1/pubpna/us09A_PUBCOMB.seq:*

13: /cgn2_6/ptodata/1/pubpna/us09B_PUBCOMB.seq:*

14: /cgn2_6/ptodata/1/pubpna/us10_PUBCOMB.seq:*

15: /cgn2_6/ptodata/1/pubpna/us10C_PUBCOMB.seq:*

16: /cgn2_6/ptodata/1/pubpna/us10D_PUBCOMB.seq:*

17: /cgn2_6/ptodata/1/pubpna/us10E_PUBCOMB.seq:*

18: /cgn2_6/ptodata/1/pubpna/us10F_PUBCOMB.seq:*

19: /cgn2_6/ptodata/1/pubpna/us10G_PUBCOMB.seq:*

20: /cgn2_6/ptodata/1/pubpna/us10H_PUBCOMB.seq:*

21: /cgn2_6/ptodata/1/pubpna/us10I_PUBCOMB.seq:*

22: /cgn2_6/ptodata/1/pubpna/us10J_NEW PUB.seq:*

23: /cgn2_6/ptodata/1/pubpna/us11A_PUBCOMB.seq:*

24: /cgn2_6/ptodata/1/pubpna/us11_NEW PUB.seq:*

25: /cgn2_6/ptodata/1/pubpna/us09_NEW PUB.seq:*

26: /cgn2_6/ptodata/1/pubpna/us60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	20	100.0	20	13 US-10-041-856-84
2	20	100.0	20	US-10-719-993-4494
3	20	100.0	201	US-10-719-993-4508
4	20	100.0	201	US-10-719-993-4509
5	20	100.0	201	US-10-719-993-4523
6	20	100.0	201	US-10-719-993-4535
7	20	100.0	201	US-10-719-993-4536

RESULT 1

US-10-041-856-84

; Sequence 84, Application US/10041856

; Publication No. US20020169299A1

; GENERAL INFORMATION:

; APPLICANT: SLAUGENHAUPT, SUSAN

; APPLICANT: GUSELLA, JAMES F.

; TITLE OF INVENTION: IDENTIFYING INDIVIDUALS WITH FAMILIAL

; TITLE OF INVENTION: DISAUTONOMIA

; FILE REFERENCE: 1829-4004US1

; CURRENT FILING DATE: 2002-07-08

; PRIOR APPLICATION NUMBER: 601260,080

; NUMBER OF SEQ ID NOS: 88

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO: 84

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Primer

; OTHER INFORMATION: Description of Artificial Sequence: Primer

; US-10-041-856-84

Query Match Score 100.0%; Score 20; DB 13; Length 20;

Best Local Similarity 100.0%; Prod. No. 2.4;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACTGTCTCATAGATCGC 20

Db 1 GACTGCTCTCATAGCATCGC 20 ; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4509

RESULT 2 ;
US-10-719-993-4494/c ; Sequence 4494, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4494
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4494

Query Match 100.0%; Score 20; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 2.8; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCTCATAGCATCGC 20
Db 34 GACTGCTCTCATAGCATCGC 15

RESULT 3 ;
US-10-719-993-4508/c ;
; Sequence 4508, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4508
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4508

Query Match 100.0%; Score 20; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 2.8; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCTCATAGCATCGC 20
Db 34 GACTGCTCTCATAGCATCGC 15

RESULT 4 ;
US-10-719-993-4509/c ;
; Sequence 4509, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4509
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4509

Query Match 100.0%; Score 20; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 2.8; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCTCATAGCATCGC 20
Db 133 GACTGCTCTCATAGCATCGC 114

RESULT 5 ;
US-10-719-993-4523/c ;
; Sequence 4523, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4523
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4523

Query Match 100.0%; Score 20; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 2.8; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCTCATAGCATCGC 20
Db 34 GACTGCTCTCATAGCATCGC 15

RESULT 6 ;
US-10-719-993-4535/c ;
; Sequence 4535, Application US/10719993
; Publication No. US20040265849A1
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele et al.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: ALZHEIMER'S DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001496
; CURRENT APPLICATION NUMBER: US/10/719,993
; CURRENT FILING DATE: 2003-11-24
; NUMBER OF SEQ ID NOS: 55342
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4535
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-719-993-4535

Query Match 100.0%; Score 20; DB 20; Length 201;
Best Local Similarity 100.0%; Pred. No. 2.8; Mismatches 0; Indels 0; Gaps 0;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GACTGCTCTCATAGCATCGC 20
Db 133 GACTGCTCTCATAGCATCGC 114

RESULT 7 ;
US-10-719-993-4536/c ;
; Sequence 4536, Application US/10719993

RESULT 2
Z42212/c
LOCUS Z42212 258 bp mRNA linear EST 08-NOV-1994
DEFINITION HSC0CD041 normalized infant brain cDNA clone
ACCESSION C-0CD04, mRNA sequence.
VERSION 242212.1 GI:565316
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo. REFERENCE 1 (bases 1 to 258)
AUTHORS Auffray,C., Behar,G., Bois,F., Boucher,C., da Silva,C., Devignes,M.D., Duprat,S., Houigat,R., Jumeau,M.N., Lamy,B., Lorenz,F., Mitchell,H., Marigne-Samson,M., Pietu,G., Pouliot,Y., Sebastiani-Kabatichis,C. and Tessier,A.
TITLE IMAGE: molecular integration of the analysis of the human genome and its expression
JOURNAL C. R. Acad. Sci. III, Sci. Vie 318 (2), 263-272 (1995)
MEDLINE 9527534
PUBMED 7757816
COMMENT Contact: Genethon
Genethon Centre de recherche sur le Genome Humain
1,rue de l'Internationale, BP60 91002 EVRY Cedex, FRANCE
Tel: 33169472800
Fax: 33160778698
Email: genexpress@genethon.fr
Single read
Genexpress library_idt: C; Genexpress_sequence_idt: YIC-0cd04
Seq primer: (-21)M13 universal.
FEATURES source
location/Qualifiers
1. .258
/organism="Homo sapiens"
/mol_type="mRNA"
/ab_xref="taxon:9606"
/clone="C-0cd04"
/sex="female"
/tissue_type="total brain"
/dev_stage="3 months old"
/clone_lib="normalized infant brain cDNA"
/note="Organ: brain; Vector: lafmid BA; Site_1: HindIII;
Site_2: NotI; sex=Female; dev_stage=3 months old;
isolate=muscular atrophy patient; tissue_type=tot
brain; total RNA was oligo-(dG) primed and directionally
cloned 5' -> 3', into the HindIII -> NotI sites of the
lafmid BA vector. Clone library from B.-Soares, Psychiatry
Dept. Columbia University, USA. Normalization_method:
Bento Soares, P.N.A.S in press"
ORIGIN
Query Match 100.0%; Score 20; DB 7; Length 380;
Best Local Similarity 100.0%; Pred. No. 17;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DEFINITION H15327 492 bp mRNA linear EST 27-JUN-1995
LOCUS H15327 IMAGE:49526 5, mRNA sequence.
DEFINITION H15327 492 bp mRNA linear EST 27-JUN-1995
ACCESSION CR788009.1
VERSION H15327.1 GI:880147
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo. REFERENCE 1 (bases 1 to 42)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliott,K., Hawkins,M., Holman,M., Hultman,M., Kubaca,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE WashU-Merck EST Project
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Unpublished (1995)
ACCESSION CR788009
DEFINITION DKFZp459M2022_71 459 (synonym: pcov1) Pongo pygmaeus cDNA clone
VERSION CR788009.1
KEYWORDS EST
Db 205 GACTGCCTCATAGATGCC 186
RESULT 3
CR788009/c
LOCUS CR788009 380 bp mRNA linear EST 01-OCT-2004
DEFINITION DKFZp459M2022_71, mRNA sequence.
ACCESSION CR788009
VERSION CR788009.1 GI:53707006
KEYWORDS EST
SOURCE Pongo pygmaeus (orangutan)
ORGANISM Pongo pygmaeus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo. REFERENCE 1 (bases 1 to 380)
AUTHORS Ottenwaelder,B., Obermaier,B., Deutscherbaur,S., Schalpp,A., Mewes,H.W., Weil,B., Amid,C., Osanger,A., Robo,G., Han,M. and Wiemann,S.
TITLE Pongo pygmaeus mRNA (Ottenwaelder,B., Obermaier,B., Deutscherbaur,S., et al.)
COMMENT Unpublished (2004)
Contact: MIPS
MIPS Ingostaedter Landstr.1, D-85764 Neuherberg, Germany
This is the 5' sequence of the clone insert. Clone From S. Wiemann, Molecular Genome Analysis, German Cancer Research Center (DKFZ); Email s.wiemann@dkfz-heidelberg.de; sequenced by Medigenomix (Mannheim/Germany) within the cDNA sequencing consortium of the German Genome Project. This clone (DKFZp459M2022) is available at the RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH in Berlin, Germany. Please contact RZPD for ordering: <http://www.rzpd.de/cgi-bin/products/cl.cgi?cloneID=DKFZp459M2022> Further information about the clone and the sequencing project is available at <http://mips.gsf.de/projects/cdna/>.
FEATURES source
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/notes="Vector: psp011_Sfi; Site_1: SfiA; Site_2: Sfi1B"
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Best Local Similarity 100.0%; Pred. No. 17;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DEFINITION H15327 492 bp mRNA linear EST 27-JUN-1995
LOCUS H15327 IMAGE:49526 5, mRNA sequence.
DEFINITION H15327 492 bp mRNA linear EST 27-JUN-1995
ACCESSION CR788008
VERSION H15327.1 GI:880147
KEYWORDS EST
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Pongo. REFERENCE 1 (bases 1 to 42)
AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliott,K., Hawkins,M., Holman,M., Hultman,M., Kubaca,T., Le,M., Lennon,G., Marra,M., Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.
TITLE WashU-Merck EST Project
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Unpublished (1995)